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"ANOTHER MAPLE LEAF PRODUCT"

Vinson-Black disagreement is essentially on the degree of danger permissible.

Douglas: only if immediate danger from speech

Stall- Otherwise, counter-speeches (Brandis) - Hickey & Clegg

Mill- Necessity for protection against social tyranny. Liberty interferes justifiable only as self-protection. Freedom of thought essential for great truths. Individuality an element of well-being. Individ. own a return for the benefit of society. Absorption of principal ability of a country into gov. body is fatal.

"Dreaded dissemination of power consistent w. efficiency; but the greatest possible centralization of info., & diffusion of it from the center."

Polybius: 1. education, 2. allegiance fought to 3. cohesion among members of state, esp't. s. common interest

Plato: Education to be considered. Characteristics of good life: citizen's role is to be made happy. No innovation or stab. order in gymnasium + music. Pub. opinion directed by state alone (p. 135).

<u>Individual</u>	<u>State</u>	<u>Corresponding Virtue</u>
Appetite	Producing class only, actually all classes	Temperance = portion of life all
Reason	Governing "	Wisdom
Spirit	Soldiering "	Courage

Justice in some form or other is minding one's own business; the internal management of the soul; putting the parts of the soul in their proper relation. Democracy = mob rule. Oligarchy = democracy  $\rightarrow$  Tyranny

### Full Employment Hearings

Vaughn: ought to work mutual parallel to liberté  
O'Mahony: full and full a good known bill; lower  
class income increase purchasing power, reduce

govt. spending. Dr. Shrawan, Merviniger: depression, unemp. adversely affect educ., health, domestic-intl relations  
→ crime Murray: § 380 bad, since it gives priv. enterprise  
→ chance, i.e. itself, i.e. govt. assist. Knut Hultsch, pt. 2  
should not by statute & that govt. shall not "govern."  
full impl. Mosher thinks full on is natural state  
of affairs, good econ. policy could achieve it, need  
for preventive action. Kildy: low cycles inevitable;  
govt. interference undemocratic + impractical; unlimited con-  
centration to full on requires unlimited govt. power.  
Does greatest danger in govt. interference is fine and fair  
theory of paternalism. Shire: right to work exists;  
private has failed to fulfill purpose of exemption  
- to secure decent livelihood for all men. Until free and  
displays social consciousness we must accept govt. interference.  
Bill adopted without pt. 2.

### Knight Social Econ Organization

Civics should involve creative self-expression, fellowship.  
Economics can help in provision of necessities so that above may  
be achieved. Four main functions of organized econ. activity:  
(1) set standards for determining what things - what  
proportions  
(2) allocate resources to branches of production, & combine  
or coordinate them effectively in each  
(3) distribute the product  
(4) provide for maintenance + progress  
Reason for organization is efficiency. Gains + efficiency  
from this specialization. However, severe social costs.  
Exchange (capitalistic) system works unconsciously.

### Price System + the Economic Process

Production, because of competition, is forced to meet  
consumers' demands + to be efficient.

## Notes on Population Genetics

### 1. Gene frequency

Genotype       $\begin{bmatrix} AA & Aa & aa \end{bmatrix}$  Total  
 No. individ. w. this genotype  $\begin{bmatrix} D & H & R \end{bmatrix}$  N  
 The "N" have  $2N$  genes.

Total no. of A genes is  $2D + H$

Proportion of A genes in this group is

$$\frac{2D+H}{2N} : \frac{D+\frac{1}{2}H}{N} = p$$

This is the gene frequency of A for this group.

$$\frac{2R+H}{2N} : \frac{R+\frac{1}{2}H}{N} = q$$

is the gene frequency of a for this group.

$$p + q = 1$$

For large groups, genotypes are given in proportions:

$$D' : \frac{D}{N}$$

$$H' : \frac{H}{N}$$

$$R' : \frac{R}{N}$$

[Henceforth, D, H, R]

$$D' + H' + R' = 1$$

$$p : D + \frac{1}{2}H$$

$$q : R + \frac{1}{2}H$$

### 2. Panmixy

For random mating of the population

$$\begin{bmatrix} AA & Aa & aa \end{bmatrix}$$

$\frac{AA}{D} \quad \frac{Aa}{H} \quad \frac{aa}{R}$  e.g., is the proportion of recessive homozygotes in the popl.

	AA	D	$D^2$	DH	DR	frequency of each type
♂	Aa	H	DH	$H^2$	$HR$	of mating
	aa	R	DR	HR	$R^2$	

### 3. The Hardy - Weinberg equilibrium

Consider a <sup>large</sup> panmictic population in which the gene frequency of  $A$  is  $p$  and that of  $a$  is  $q$ . If the proportions of the three possible genotypes are

$$AA \quad Aa \quad aa \\ p^2 \quad 2pq \quad q^2$$

(i.e.,  $D = p^2$ ,  $H = 2pq$ ,  $R = q^2$ ),

then the proportions of these groups in the next generation will be identical.

The equilibrium is due to the symmetry of the Mendelian mechanism for bisexual reproduction.

Mithraism

## Clark: Objectives in Our Economy

People are the test of the economic system. Principle of objective documents to help choose between conflicting alternatives. Accepts mass prod., group power, evolutionary change, Imaginary reconstruction. Willian freedom, inflation slows a purchase but not distract it. Some inequality essential.

## Simons: Part I

State must maintain the legal + institutional framework, within which laissez faire competition can effectively function. "Failure" of capitalism due to such non-maintenance. Monopoly enemy of democracy. Labor union but labor + the economy in long run. State should own + operate all industries in which effective competition cannot be maintained. Low inequality central. Major factor in depression: inflexibility (rigidity) in areas of price, output, imports, gov't management of money circulation + joint commercial banking.

## Keynes: Social Surveys at Chicago, a Survey of Money

Continuous deterioration in value of money through history due to (1) impotency of govs. + (2) superior political influence of debtor class. Investors class gains. W. rising prices business man borrows at a profit, i.e. gains wealth. Deflation discourages investment, discredits enterprise. Expectation effect. Inflation is unjust, deflation is expedient.

## Simons: Pt 2

Elim. of pin money, money control, tax revision, tariff revision, no squandering of currency. Revision of corp laws. Banking revision: 10% net income to govt by personal income taxes. New income to help public.

## Moderate Fiscal Policy for Greater Economic Stability

Inflation-deflation policy p. 364-5.

Unemployment compensation, constant tax rates, + social security all have buffering action on economic instability. Congress should consider individual money grants w/ the overall budget.

## Fed Reserve System

Regulate money supply. Multiple check.

## Lerner - Economic Steering Wheel

Inflation: > spending, closing > income. Gov should maintain level of demand. If on spending, by enough, govt should < taxes or > own spending. Watch for inflation. > gov spending by printing more money. Keeping national debt of some importance. Tommtd, of proponents.

## Clock - Moderate High Social Decay

Focus on fiscal in works, because in last 20 years capital, the top priority. Bottom priority: taxes, Cuts, top spending (Healthcare), etc. Spending must be kept stable + adequate. Most unstable sector of spending is for capital other than small goods. Most stable factor is consumer spending. Timing of gov. construction of public works at time when private construction is slumping. There are difficulties re: pub. debt. Tax reform pro on business, + "favourable climate" of govt attitudes + pub. opinion.

## Machlup

A Smog fellow. Restricted competition among employers is only correct argument for contention of labor's disadvantage in individual wage bargaining.

But this disadvantage not important enough to create labor monopolies. Because labor monopoly raises the income of minorities only; the group as a whole suffers. Interplay between bus. & lab. monopoly additive, not compensatory. Increased wages out of increased productivity extremely limited. Since wages are, in gen., too low, we should not fix upon lab. leaders the respons. the gov. has shirked, viz., "moderate" wage demands. Outlawing industry-wide collective bargaining may be a practicable method for c. lab. monop. but only if bus. monop. c. also.

### Merton - Unionism, Full Employment, & Inflation

In completely competitive society inflation will be fostered by Fisher-Taylor's Law (probable). union wage demands tend to exceed increases in physical productivity. . . we may have any 2 of (1) (2) + (3), but not all 3. Labor monopoly disadvantage will work on all or some (i.e. strike) basic. Union can succeed only if they control banking policy. FRB sympathetic to stopping inflation by restricting credit. Objection to inflation is unequal incidence. Policy of high emp. & stable prices basically feasible. No unconditional guarantee of full emp. shall cost overall control of effective demand; wages & price control dictatorial.

### Clark - Prices - Costs

Probably no harm in slow long-term inflation. Inflation due to > spending > money costs. Industry must, in its own interest, accept high real wages + modest profit margins. Obstacle to expanding demand long reducing prices: "worse of reverse effect" (p. 133). price cut itself more swiftly. Capital goods cuts have little preventive value, consumer goods cuts only some. Most important

goods to stimulate are goods which promote a changed way of living. Timing important i.e. price cuts. Dual promotion of industrial expenditures. Integration of policy essential. Competition must permit (1) narrow profit margins (2) enough profits for expansion.

### Clark - Collective Bargaining + Wages

Coll. barg. (1) is workers' alternative to socialism + (2) involves monopolistic wage determination. Unions very effective in achieving suitable working conditions. A guarantee to something less than full employment wage is logical. Wages are both costs + income. Narrow profit margins essential. Increased productivity essential. This may result in worker interest in > productivity (But v p 177)

### Econ. Report of Pres - July '55

Pay-as-you-go policy advisable. Taxation essential for fiscal + for anti-inflation purposes. Direct price, wage, + rent control advisable. Recent congressional weakening of controls unfortunate. Policy integration needed. Dip in saving would help alleviate short-term dip in consumer incomes. Firm but not unbounded confidence of prosperity is useful + justified.

## Steel Industry Dispute

There is a problem in re that the union must, by T-H act, represent all employees, regardless of union membership. Should "free riders" pay dues? Public members of WSB contend that Congress has heard & rejected some arguments of steel companies. Labor members assert fact that WSB has made no recommendations on many issues; discuss rising cost of living. Management members assert lack of collective bargaining before going to WSB. Truman: wage > justified, can be paid out of > profit margin. Randall: pol. debt to CIO in gov. seizure of steel mills; implies that because of taxes, wage > cannot be paid out of profits. Sup. Ct (Black): no Constitutional power for seizure.

## Hobbes - Leviathan

Natural man, a very inferior being, is always at war. W. war, no culture, no injustice. Natural laws: 1. prohibit a man to destroy himself. Law 1: man should seek peace qua he can obtain it; law 2: for peace, man may surrender nat. rights, i.e., make a contract. To be effective, such contract must give all power to the sovereign. ∵ each is the author of every subsequent act of the sovereign. Faults in proper gov. is not in the form of gov. Monarchy best form - right to appoint successor essential. Liberty of subjects only qua the sovereign has not restricted it. When refusal to obey frustrates end for which sovereignty ordained, no liberty to refuse; otherwise, there is. (p. 201) For effective commonwealth, all powers necessary for preservation of peace must be given sovereign. May be tacit consent to sovereign.

## Rousseau - Social Contract

People may use force to recover liberty. So adequate compensation can be made for loss of nat. liberties. War is only between states. Since there must have been an organ of the

people before election of the sovereign. That is the true foundation of society. This is the social contract in which each places his power under direction of the general will; purpose: combination of individuals necessary for survival (e.g., face of nature). No law, not even contract, is obligatory for body of people does not lib., gain civil lib. Locke's property laws. Men may give away their power, but not their will. General will cannot ex. will of all can. No factions. Separation of leg. + exec. Leg. should promote liberty + equality.

Sovereign → Gov. (exec.) → People (leg.) } the state

### Locke - Concerning Civil Government

In state of nature, man has perfect freedom, within bounds of law of nature, i.e., reason, which yields that no one ought to harm another w.r.t. life, possessions, etc. Transgressions may be punished by anyone; reparation may be taken by injured party. Fallibility of monarchs. Want of common judge w.r.t. power → state of nature. Force against a man without right → state of war. Property qua one has mixed his labor w.r.t. it. Property right exceeded only if useless perishing, not if by possession. End of commonwealth is preservation of property. Leg. to govern by promulgated univocal laws; powers limited. Exec. - internal, federative - external to state. People retain deposition power. Right of revolution will not be abused. Who shall judge when the exec. or leg. act contrary to their trust? "The people shall be judge."

### Lippmann - Public Opinion

Men react to a most inadequate picture of the Great Society, the "picture in our heads." Pseudo-environments, "Rep. gov't... cannot be worked successfully... unless there is an independent, expert organization, for making the main facts intelligible to the decision-makers." Myth of omnicompetent citizen,

Inventions for presenting real world-view for decision-making.  
Dem. tradition has pushed for decisions on local level, in the self-contained community. Dem. fears crises, since rapid, big-scale decisions can be made only by leaders. Federalists intend to deadlock class-local opinion interests to prevent them from obstructing gov. "Dem. rev." of Jefferson-Jackson substituted professional politicians, which, though "modem," fit the real world-view.

### Wirth - Urbanism as a Way of Life

Sociological def. of city: rel. ly., dense, permanent settlement of socially heterogeneous individuals. Segmented roles, solidified character of urban personality, secondary contacts.

of Mill Loss of spontaneous self-expression; <sup>individualization</sup> sense of participation.

Anomie - Durkheim's social void.  $\rightarrow$  density  $\rightarrow$  specialization.

Lippmann Sensitivity to world of artifacts; removal from world of nature.

Technology + density  $\rightarrow$  rapid tempo  $\rightarrow$  nervous tension.

Acceptance of instability + insecurity as norm. Failure of urban pop. to reproduce itself. Through vol. groups urbanite expresses himself. Control by mass agency.

### Weber - On Bureaucracy

Bureaucratization  $\rightarrow$  modernization of state. Capitalistic institutions can develop only where functioning of legal-administrative system is, in gen., predictable. (no calculations.)  $\rightarrow$  organization requires  $\rightarrow$  bureaucracy. Buc. indispensable.

State + priv. capitalistic laws. Probs.: w.  $\rightarrow$  law., how preserve individualistic freedom?, i.e., how prevent abuse of power by the law? Bureaucrat my object, but must obey orders. Pol. leader should say: my way or I resign.

## Almond - Amer. People and Foreign Policy

Pareto: manipulation + coercion of people by elite.  
Den. pub., attention pub., policy + opinion elites, administrative elites. Requirements for demo. policy making: (1) oppor. for mass participation, (2) real elite autonomy + competition, (3) attention pub. before whom elite discussion + controversy take place. Pop. control of gov. ends usually, but significant. Need for consistent statement of for. pol. objectives. Need for training in for. pol. (in re. soc. sci.)

## Supreme Court

Amer. Communication Assoc., C.I.O. vs. Douds, NLRB

Vinson: merely restricting certain individuals (Comm.) known to be leaders of economic disruption, from positions capable of causing such disruption. They are permitted to think what they will. (Based around <sup>contortion</sup> § 9(h) of T-H act)

Jackson: restriction of Comm. as union leaders O.K., but requirement to swear non-belief in violent overthrow delegates to question of belief. One should be permitted to hold "communism" belief. America founded on violent rev.

Block: it is but another step to restricting Comm. entirely from earning a living. Thought control, guilt by association.

Miner'sville v. Gobitis

Frankfurter: must reconcile 2 conflicting rights. Court should not restrict a leg. in ascertaining ways of fostering nat. spirit.

Stone: other ways to enforce loyalty than to force statement not believed

W. Va. Bd. Educ. vs. Barnette

Jackson: Gobitis case overruled. Infringement of 1st amend. Patriotism should flourish voluntarily.

Frankfurter: power of gov. is being denied.

## Neighborhood in City Planning

Dahis: Party plan for groups of sm. bounded committees.

Ricmer: Sm. commms. have social difficulties. Should be careful in tempering w/ optical arrangements; do not know consequences. Party plan breeds ethnocentrism + discrimination.

Isaac: Party plan details unworkable.

Dahis: difficulties are in people, not in planning

## A Free and Responsible Press

The press is not meeting soc. needs; threat to freedom. Gov. can help some (p. 689). Commision has a responsibility to elevate, not degrade, public interests + to be mutual criticism. Press criterion: (1) truthful, meaningful news (2) forum (3) societal structures (4) societal aims (5) complete news. Demands standards for workers.

## Powell - Education for Maturity

Reflection only when 3 significant choice. Maturity criterion: (1) independence (2) coherence (intelligence) (3) responsibility. Maturity: nat. intelligence is a social product

## Weber - Politics as a Vocation

Basis of power: (1) "traditional" (2) "charismatic" (3) "rational-legal." Status-differentiated organization: material instruments of admin. are wholly or partly the property of the dependent administrative staff. Modern state - monopoly of legitimate physical violence as a means of domination. Centralization and assimilation until major pol. party wins. "Well-disciplined voting cows." Pol. boss.

## Burke - On Party Gov. and Representation

"When bad men combine, the good must associate." Each MP should join pol. party to which his opinions most conform. MP should represent nation, not only constituents.

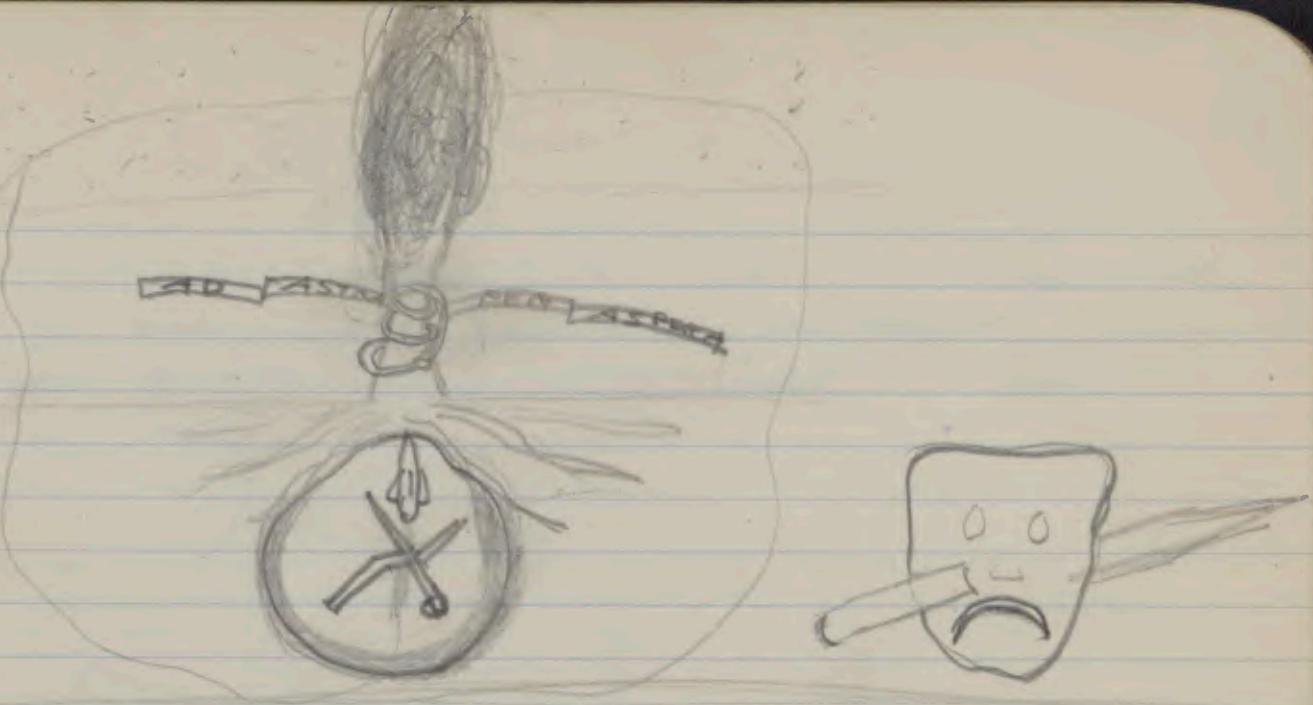
## Madison - Federalist No. 10

Faction (group whose interest is adverse to the gen. good) is to be controlled. Faction latent in nature of man. Control effected by (1) preventing oligarchy in the factions passion or (2) preventing its manifestations. ∵ pure democracy (e.g. N. Eng. town meeting) cannot control faction. In. republic preferable to an. rep. pref. to democ. > people, > different interests, affect a balance.

## Lindsay - Essentials of Democracy

cf. v.v. Hegelian dialectic

Discussion is more important than consent (in re majority decision binding minority). Opposition (perhaps, minority) essential. Discussion attempts to find something out, consent presumes it has already been found out. As soon as it is found out, the facts are there and consent to obviously best policy should necessarily follow]. Small discussions reach a conclusion, send a rep. to larger discussion unit; they reach conclusion, etc. Discussion group must be open to pub. interest + criticism. Difficulty in democracy is that the individ. <sup>af. Tippins,</sup> Almond, Powell is asked to solve problems or answer questions for which he does not have sufficient education. Moral standard: "Without such a conception of kind of life to be encouraged ... of what country stands for - there would be no standard of legislation." Democracy rests on the doctrine that compulsory morality is a contradiction in terms. Voluntary association can help in educating public for democracy.



- "...the Great Man was always as  
lightning out of Heaven, the rest of men  
waited for him like fuel, and then they  
too would flame." - Carlyle

- "With misundertak'd this work  
- "No man is an island entire of itself.  
Every man is a piece of the continent,  
a part of the main. If a clod be  
washed away by the sea, Europe is the  
less, as well as if a promontory  
were, as well as if a manor of thy  
friends or of thy own were. Every  
man's death diminishes me, because  
I am involved in mankind. And  
therefore never send to know for  
whom the bell tolls. It tolls  
for thee." — John Donne

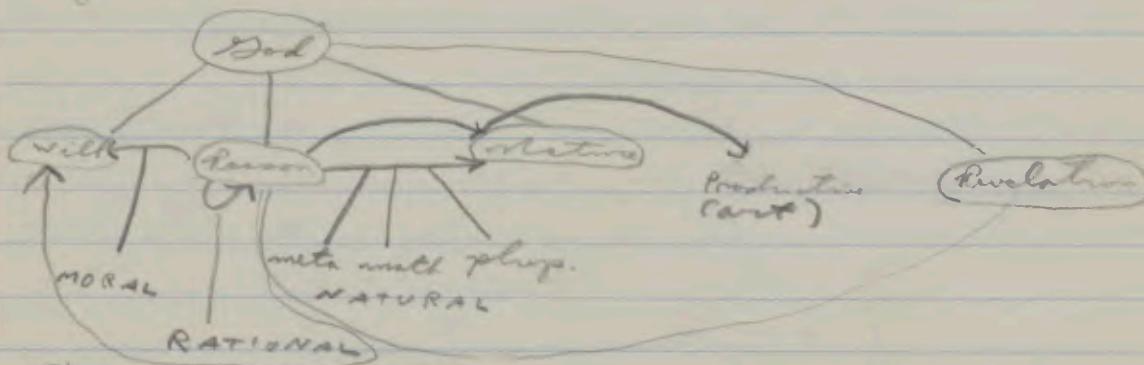
Sept. 28, 1953

NARTS - Pickerington Arsenal - Richardson 8

X-1, D-558, Viking: now working on ~ 200 motors; e.g., "same size, ~ 5 or 6 times the thrust." "advanced types": NACA - Edwards AFB - Calif. X-5 variable wing-sweep.

O. M. P. notes

- Augustine: personal salvation achieved by climbing particularly the moral line.
- Aquinas: pers. salve (achievements of God) achieved by divine revelation.
- Each solution eliminates the necessity of a man to be a philosopher to be saved.
- Problem: how can it be that both moral and physical means are equally effective in achieving God? Answer: the natural world (& actual world) was made by God
- Aquinas re order



- Aquinas has two principles (will ordered by God, by reason) will 2 diff classifications
- habit = actualized potential of power
- Kant = any completed knowledge is merely a fill-in on a priori. A science is material if it deals w/ a really discriminable "quiditity" ('what')
- Kant: formal, material (analytic - pure form, synthetic pure material, both are a priori)
- Pure & empirical are distinctions by source
- pure + theor. subject matter
- Formal & material necessity + contraries
- e.g. metaphysics of nature - pure, theor., material
- " " " morals - pure, pure, material
- no pure + theor. distinction for formal, since no subject matter

In Dreyg's logic as metaphysics (if he has not metaphysically of events)	⑦
unconditioned - things of physical world taken as they are w/out conditioning of our senses	
complexes of <del>unconditioned</del> events   beyond physics   unconditioned	
common (e.g., Aristotle)   "form of nature"   causes	
Time (Kant)	principle of mind applicable to nature   concepts which fit nature
Object can fit mind - proc. } 2 kinds of metaphysics of nature Mind fits object - spec. }	of morals
Can't make object change	of nature

2 wrong ways for metaphysics of nature:  
thought w/out nature (formalist), nature w/out  
thought (surveilling).

Concept only (math), concept applied by thought construct  
(math), concept by experiment (physics); concept  
made real (world)

	Care	Empirical
Formal	Logic	x
Matter	↓	experience

metaphys. of nature (physics, math)  
" " morals

- If we presume knowledge conform to object,  
no unconditioned, for that which lies  
beyond nature beyond experience cannot  
be known by experience; in object is changed  
to fit mind so there can be no conditions.
- Plato view of mind differs in that recollection de-  
pends upon what kind of life a man has led;
  - Descartes is not; doubt my ability is a discipline  
available to all
  - Aquinas - v. noncognate matter
  - Boehm - matter determines the form

materials

Whewell - ideas + facts, mutually appropriate, raise each other upwards. Appropriate criteria - colligation of facts.

I (A) Two extremes : discovery of what is in the materials (proof irrelevant, a coarse or idea has been found to order a "clump" of universe, no more can be done; no determinate knowledge). However one can exhibit appropriateness of induction to facts, which Whewell calls <sup>ind.</sup> proof (no appropriateness in still) demonstration of the truth of an induction. Whewell finds appropriateness; still finds truth method of difference "only real method." No method in <sup>aff.</sup> still for discovering where  $a, b, c, d$  ~~are in~~ and  $t, B, C, D$  are in a given object or event.

I (B) Content as having parts (Mill)  
being a part (Plot) being a whole  
(Aristotle)

II (A) Simplicity: circumstances prevent getting at natural method (will go down to relation of parts); i.e., original precision gone. All left is selection of several traits.

Bergson: inquirer evolves  
Dewey: inquirer, inquirer, methods evolve circumstances become all.

Organizations

## OMP Review

### Plato - Republic

Sun analogy. When the Idea of the Good yielding truth and existence ~~is~~ "shining" on an object, the soul may know the object, but when the I. of D. is not "shining" the object is contingent re knowing, and the soul is in the realm of opinion.

Divided Line. (v. Reinhold p. 207)

### Allegory of Cave

Every art + science relies upon math, to a degree. True knowledge is only of the necessary — the real (+ invisible). No objects of sense admit of scientific treatment [i.e., per se — no knowledge merely from sensation]. Dialectic — process of passing to Form of Good; must be indep. of ~~concreteness~~ info; only way of knowing truth. No unproved hypotheses (third step) [cf. undefined term]. Dialectic comes its "back to first principle; then of Augustine's formed to particulars w. aid of arts (better than opinion; liberal arts worse than science). To leave the cave one needs only intelligence + love of truth.

### Aristotle - Physics

Things "by nature" have a principle of motion (i.e., change + of stationariness within themselves). Two accounts of nature: (1) the immediate material substratum of things which have within themselves a principle of motion; (2) the shape or form which is specified in the def. of a thing. In truth (2) better than (1), for a thing is more properly what it is when it is attained fulfilment than when it exists potentially. Physics should know both (1) + (2) [consider matter of bricks dictating form of wall]; should investigate objects as we would the essence of substances.

## Aristotle - Metaphysics

[ $\alpha$ ] End of theor. knowledge: truth; end of prac. know.: acting (making or doing). We do not know truth unless we know — cause. Efficient, material, formal and final causes. What be a final cause, first principle. [In nat. objcts, efficient cause often object itself; purpose usually unconscious; hence reduction to original form + matter].

[ $\epsilon$ ] Metaphysics - study of being qua being. All thought is either theoretic (meta, math, phys.) practical, or productive (i.e., prac-prac + prac-prod.). Theor. sciences (movable implies contingency).

Physics - inseparable, movable  
cf. Aquinas { (geom) Math - inseparable, immovable

Metaphysics - separable, movable

[ $\kappa$ ] Each science marks off a field of knowledge; attempts to get the 'what' in each class of things + tries to prove other truths. Some get 'what' through perception, some through hypotheses, but there is no demonstration of the 'what' — (i.e., substance).

## Aristotle - Nicomachean Ethics

The intellectual virtues: (1) scientific knowledge - its object is the necessary + unchanging; it is a state of capacity to demonstrate. (2) art - concerned w. the contingent, w. coming into being (its origin is makes); a state of capacity to make, involving a true course of reasoning. (3) practical wisdom - involves good deliberation about the things conducive to a good life in gen.; it is the virtue of the opinion-making faculty, a true + reasonable capacity to act w. regard to the things that are good or bad for man (ethics, politics). (4) intuitive reason - that ~~from~~ which we have immovable truth; grasps first principles of all subjects.

(5) philosophic wisdom - most finished form of knowledge; intuitive reason combined w. scientific knowledge of the highest objects which have received their proper completion.

Princ. wisdom concerned w. the ultimate particular.

Boethius - Dialogue on Porphyry's "Introduction"

[Poor attempt at Plato-Aristotle synthesis. No dialectics.] Theor. phil. concerned w. (1) the intellecible - theology (2) the intelligible; originally (1) - de-generated to (2) in contact w. bodies (3) natural things - "physiology." Tripartite division of prnc.

Boethius - On the Trinity

c.f. Plato Deal w. objects of physics naturally; mathematics, according to discipline; theology intellectually. Form all important. Natural things are conjoined from their parts, are a ~~This~~ This and a That. But the divine substance (no matter) is a This only, and is wholly beautiful & stable since it depends on nothing else. It is One.

Aquinas - Commentary, Trinity

[Theoretic + practical intellects differentiated by subject matter and by ends.] The intellect possesses habits and powers. [Powers are potential habits] Theoretic sciences differentiated according to an order of removal from matter (& motion) in re habits + powers:

Materiality and Immateriality in Being & Understanding

Metaphysics - immaterial in Being; immaterial in understanding

c.f. Aristotle Mathematics - material in Being; immaterial .. ..

Physics - material in Being; material in understanding (<sup>in sub-matter</sup> sense)

No fourth category

### Aquinas - Commentary, Nicomachean Ethics

Mark of wise man to order. Two-fold order in things (1) less import.: order of things or parts to each other (2) More important: order of things to an end. Order is related in 4 ways to reason w. corporeal sciences: (1) order reason investigates, but does not make - natural philosophy (2) order reason makes in its own activity - rational philosophy (3) order reason makes in operation of will - moral philosophy (4) order reason makes in object constituted by reason - mechanical arts.

There can be a kind of whole in which (1) a part has an operation the whole does not or (2) one in which the whole has an " " part " " or (3) " " " " " " the identical operation the part has.

### Aquinas - Summa Theologica

It is nec. for salvation that there be doctrines from divine revelation (1) because, since God, the end to which man is ordered, exceeds the comprehension of reason, + since man should know his end in order to rightly order his action, a source of info. must be provided (2) man should know the extent human reason can attain to God. Sacred doctrine is both theor. + prac., but more theor. than prac. Sacred doctrine is of greater dignity. It is infallible.

### Augustine - City of God

Claims Plato divided philosophy into moral philosophy, natural philosophy, + rational philosophy (logic). God is the cause of all 3; can be attained (approached) [asymptotically as w. all dialectics] by any one of them. Condemnation of sensible for intelligible. Approvalation of Platonism in all 3 philosophies. Philosopher is happy.

## Augustine - On Order

Reasoners are rational. The reasoned is reasonable.  
[reasonableness = orderliness]. Reason has successively  
contrived the "liberal arts;" historically. Reason  
suspected that it itself was the ordering principle  
(number) by which all things were ordered. Following  
the liberal arts is the dialectic by which God may  
be approached for all those who are not philosophers.  
[cf. "air of pride"].

# Bacon - The Advancement of Learning

Man's Understanding  
 History      Poetry      Philosophy  
 Divine Ph.      Human Ph.      Nat. Ph.      - Philosophy prime in here  
 (primitive or summary philosophy)

Philosophia prima - axioms which cut across many fields; common and higher knowledge from which comes all else. Of man's knowledge some springs from above (God); some from below (nature). We should not try to submit divinity to reason; rather, raise reason to divine truth. The practical called natural prudence, or natural magic.

Nat. Ph.

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graph TD
    NP[Nat. Ph.] --> NS[Nat. Science]
    NP --> NAT[Natural]
    NS --> M[Metaphysics]
    NS --> P[Physics<br/>(Nat. Hist.)]
    NAT --> P1[Prudence]
    NAT --> M1[Magical]
    NAT --> P2[Philosophical]
    NAT --> E[Experimental]
  
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Metaphysics deals w. the abstracted & fixed, that which supposes a reason in nature; fixed, & constant causes; principals or originals of things; formal & final causes; essences of qualities. (Separated from theology).

Physics deals w. that which is inherent ( $\therefore$  contingent) in matter; that which appears in nature only being + moving, variable + respective causes; contexts of configurations of things; material + efficient causes; qualities.

Natural History deals w. the variety of things; concerns all variety + particularity of things, whether of substances or of qualities; catalogues.

Forms (in subl. - more exact) most important.

It is valid to investigate the forms of qualities (e.g. heat); invalid to "the things having qualities" (e.g. snow). A thing is constituted of qualities (Bacon's principle) in a configuration.

of Aristotle ∵ more things than qualities and metaphysical knowledge easier than it (as for Aristotle) on quality (essence) per thing.

Dialectic - up from nat. hist. to meta. w. pl. of met. prob. as methodology.

Math, since its subject is (relative) quantity deals w. one of the essential forms of things, + so is a subdivision of meta.

Purposive, predictive experimentation necessary.

### Kant - Introduction to Logic

Everything, including the mind, takes place according to necessary or contingent rules. The necessary rules can be discerned a priori; i.e., independently of experience, since they contain the condition of the use of the understanding in gen, without regard to object. ∵ necessary laws of understanding (general logic) are found only; not material. Logic is the propaedeutic of all use of understanding, but not an architectonics. Used for criticism + correction. Logic is a canon.

## Kant - Metaphysics of Morals

Rational knowledge

formal material

logic laws of freedom laws of nature

moral philosophy natural philosophy

spec. part empirical part spec. part empirical part

	a priori	a posteriori
formal	logic nature freedom	metaphysics of morals
material	meta. of nature meta. of morals	physics practical anthropology

If a law is to have moral force, it must be of necessity. It is not enough to conform to the moral law; it must be done for the sake of the law. Formation of metaphysics of nature - pure speculative reason. Formation of " of morals - pure (i.e., a priori) practical reason. There must be some common ground for these two parts of reason.

## Kant - Critique of Pure [Speculative] Reason.

Logic is vestibule of material sciences; acquisition of knowledge in these objective sciences. They must contain some a priori knowledge to be rational. Relation between knowledge + object: (1) it may determine the object + its concept, or (2) it may also make it real. (1) is theor. + (2) is prac. knowledge. Math + physics are the 2 theor. sciences; they determine their objects a priori, math purely so, and physics partially. The high way of a science - (1) for math: investigation only insofar as concepts a priori are placed in figure [inscles + cf. Bacon by construction]; (2) for physics: using logic + experiment, reason approaches nature, forcing it to answer the questions it has posed. Princ. of (1) + (2): we should seek in nature whatever reason could not know by itself; we must do this in accordance w. what reason itself originally placed in nature.

(3) for metaphysics: Kant's suggestion.

It has hitherto been believed that our knowledge must conform to the objects. The unconditioned — that which is beyond all experience; not phenomena, but noumena. The above epistemological view for metaphysics, however, is impossible, for the objects are in the phenomenal, experiential realm, and that which is beyond experience cannot be grasped by experience as we cannot have a metaphysics. We can, however, have a metaphysics if we presume the objects must

cf. Dewey conform to the knowledge; they must be changed to conform to our knowledge [The older view seeks the first cf. Aristotle principles of nature, causes. Kant's view seeks the principles of mind applicable to nature, viz., the concepts which nature cf. Bergson fits.]

Any completed knowledge requires a practical data  
cf. Plato fill-in on the a priori. There is a Platonic leaning + returning to the case. Philosophy + philosophy.

### Comte - Course of Positive Philosophy

Previously there was heterogeneity in intellic. systems, because some parts were, theological, some metaphysical, some positive. Homogeneity now possible because sufficient posit. knowledge. Fund. princ. of art of classification: classif. should be handled by observational methods, not by a priori. Only theor. knowledge dealt w. Our <sup>direct</sup> ability for the prac. are very limited.: theor. necessary for prac. From science comes precision; from precision, action. Sciencethen; art - prac. For pos. knowledge, we must classify. We should seek theor. without thought to prac. application. Engineers. 3 kinds nat. sci.: (1) abstract - discovery of laws (2) concrete - application of laws to part. cases. (3) fundamental study of (1), yielding primary sciences (basic) cf. Bacon is Comte's conception of Bacon's philosophia prima

c.f. Kant (1) is gen., (2) is particular. Every science can be viewed according to 2 modes of development - historical + dogmatic (Kant agrees). Dogmatic preferable, indispensable, but historical method desirable as far as it is temporally possible. Pos. phil. ignores essences + all rest of meta. Separation of "irrude" + organized bodies. The positive - that which is "founded on well demonstrated facts." Impossible to study pos. method apart from its applications. Math is both a constituent pt. of nat. phil. + its true basis (architectonic). Classification of sciences. First is most general, most simple, most abstract, most irreducible, most independent, + most removed from humanity, + so forth onward:

c.f. Descartes, Kant

math, astronomy, physics, chem, physiology, <sup>sociology (Comte's word)</sup> social physics.

Obviously no psychology, since positivism deals with stuff + constituency: <sup>clay bodies</sup> before historically, dogmatically, + in order of Augustinian completeness. In order in which study should be made.

### Comte - System of Positive Polity

Synthetic method - combination of objective (above) and subjective methods. Phenomena unintelligible without peripient law, i.e., constancy amidst variation implies harmony of biological + cosmological relation; the harmony is variable - sociology deal w. laws of its variation re man. Objective method, from nature to mind, predominates, but subjective method from mind to nature, hitherto "theological"; now has a pos. part to play, viz., maintenance of the constructive and the human standpoint. Obj. meth. classifies on principle of the sciences' logical relation; subj. meth. "... of their connection with the religious purpose towards which they converge. Logic is the harmony of the 2 methods. This harmony, homogeneity, possible only by pos. method. One may pass in both directions. Roads, subject + crown of pos. sciences. We have passed historically from theol. to meta. to pos.

c.f. everyone,  
esp. Aristotle

## Dewey - The Naturalization of Intelligence

From some pt. of view objects of (1) sense-data (3) physical science & everyday experience (2) logic + math seem architectonic. This difficulty arises from assumption that true object of knowledge is that which exists prior to + independent of the knowing process; this doctrine is source of theor.-prac. dichotomy, since it precludes no doing in knowing ~~sic et non~~. No 2 situations<sup>diff</sup> problems have identical operation [particularity of experiential situations]. We know when we know. The Kant known objects exist as the consequence of directed operations ("intelligence"), not because of conformity of mind w. nature; i.e., the value of any cognitive conclusion depends upon the method by which it is reached. Perfection of method, i.e., perfection of intelligence is thing of "higher value". From Heisenberg uncertainty principle, ~~discrete~~ "velocity" particles are seen to be conceptual in nature; i.e., they belong to our intellectual apparatus for dealing w. antecedent existence. We have exchanged certainty + necessity for security — we can control the ubiquitous contingency. Knowing marks conversion of undirected change into changes directed toward an intended conclusion. Knowing is a form of doing, + theor. + prac. converge. The individually observed case becomes the measure of knowledge. Laws are formulae for prediction of the probability of an observable occurrence. Laws are inherently conceptualizations; i.e., they are relations which are thought, not observed. (Idea that we have abandoned intelligibility is perh. natural, but in the necessary "block universe" no place for individ, chg.) Analogy of cities by rivers. Intelligence associated w. judgment. Intelligent activity of man is rather realizing its own potentialities. Problem-suitable method for each problem. Artificial simplification (abstraction) necessary. [Effective synthesis of inquirer, object of inquiry, method, + knowledge acquired] No hierarchy of sciences, since each object has its own method. No dialectics]

Methods - I (A) Inquiry as a psychological event or process

Plato - Meno

Socrates is attempting to discover the def. of "virtue," but Meno, a follower of Dogeius, rather perversely insists on either defining individual virtues or listing them. Sophist position: if a man inquires into what he knows, he has no need to inquire; if he " . . ." "not," he cannot inquire for he doesn't even know the subject. Socrates' solution - theory of recollection. From a single recollection one may elicit all the rest (dialectic). One may have true notions (recols) about things he does not know about. True opinion is as good a guide to correct action as knowledge (i.e. virtue); however, knowledge more excellent. Virtue is neither natural nor acquired; it is an instinct given by God to the virtues. Must become a habit. [Platonic dialectic: free the mind from ignorance; see contradiction; resolve contradiction; go up divided lines].

cf. Hegel

Aristotle - Metaphysics

From memory comes experience. Art arises when a universal judgment is made on a class of experiences. Art is better than mere experience, since it knows the cause [ "Art" used in diff. sense from Bk. II of the Ethics]. Once the necessities of life were acquired, theor. knowledge developed, yielding Wisdom - knowledge about certain principles & causes; i.e., metaphysics. The good, i.e., the end of all things, is one of these causes.

Aristotle - Posterior Analytics

We possess a capacity, a predisposition for knowing. Theor. knowledge → syllogism → universal → induction from particulars. States of knowledge are not a priori [Plato, Kant] - developed from other " , but from sense-perception. Induction is like a root; 1 part. makes a stand, others cluster round,

a universal develops through generalization of these particulars. Intuition + scientific knowledge are most accurate. But intuition necessary in formation of major premises [principle of congregation of particulars, & of extraction of the universal from the congregation] Intuition originative source of scientific knowledge.

c.f. Whewell, Mill

I (C) Inquiry as determined by its materials

Bacon - Novum Organon

Just as methods and helps are necessary for prac. knowledge, they are necessary for theor. Theoretic necessary for prac. knowledge. Syllogism no match for subtlety of nature [causes do not act syllogistically]. The

c.f. Kosybski words on which syllogism based may be confounded. 2 ways of discovering truth: (1) A. P. : particulars  $\xrightarrow{\text{with}} \text{universal truths}$   $\rightarrow$  "middle axioms." (2) B. : particulars  $\xrightarrow[\text{gradually}^+]{\text{continually}} \text{most general axioms.}$  (2) is only true method, induction; utilizes experiment + parts. where (1) does not. (1) yields Anticipations of Nature; (2) yields Interpretations of Nature. Ig. no. of diverse parts necessary. No successful investigation of nature of a thing in the thing itself; inquiry must be enlarged. Dosh of science: human life should be endowed w. new discoveries + powers. Experiment - rightly ordered method. Many times the wrong objects have been investigated.

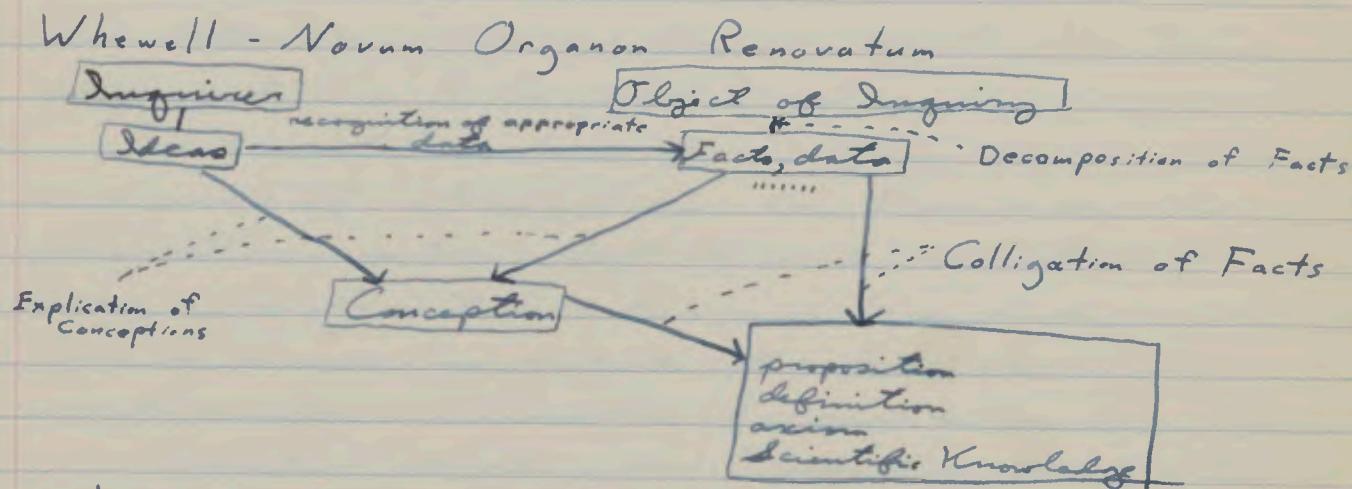
Descartes - Meditations

Method of systematic doubt on basis that perhaps perceiver is dreaming, & perhaps  $\exists$  a powerful, opinionated God. Doubts: ~~post for~~

	(1) past particulars (2) present particulars (3) classes of particulars (4) basic qualities of " (5) the ordering, relational principles (mind)	history practical physics metaphysics mathematics
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Although all things somewhat doubtful (highly probable), useful to doubt as much knowledge as possible, and see of what we can be absolutely certain. It is absolutely certain that I exist. The only attribute absolutely inseparable from the "I" is that I think. Very probable that I perceive immediate general sense-data (e.g., heat). Conception had of a piece of wax w. changing properties not from <sup>nor from sense</sup> imagination but from inspection by the mind, which reveals it to be a certain body of certain constitution.

cf. Plato



cf. Kant

We have a priori certain Ideas (e.g., space, resemblance). Modifications of ideas by part. facts yield Conceptions (e.g., circle, genus). Conceptions must be clear and appropriate. Contradictions should be resolved. Ideas must be " " " ". Scientific discovery rests on some happy thought, rising above rules. All facts have ideas in them; we cannot remove them, but we can be aware of them; they must be intellectual ideas, not emotional ones. (Science proceeds by revision, not addition)

cf. Plato

I (c) Inquiry as an operation on materials

### Mill - System of Logic

Textbook distinction between induction + deduction, although induction necessary for deduction. Real difference is not in terms of partic. + gen., but in terms of more + less gen. Induction is a real process of inquiry, i.e., it produces something new. Induction - operation of discovering + proving gen. propositions [Because of generality criterion Aristotelian partic. - universal dichotomy completed].

cf. Aristotle No methodological distinction between theor. + prac.; only cf. Whewell one re subject matter. When a person has thought of something, science can tell if it is appropriate, whether induction can be applied, whether the applied induction is legitimate. Often single facts have to be proved (same operation as gen. principle).

First mental analysis from a group of antecedents + consequents of individual a's + c's; then a similar physical separation [But there is no method for so doing - fundamental weakness of this whole position].

cf. Whewell This is decomposition of facts. 1st rule of physical inquiry -

cf. Bacon separates some from rest. Causation if: remove a, removes c; replace a, c replaced. [cf. extrapolation expts.] Observation cannot determine causation; only experiment can. [Purifies independence of causes]. Method of Agreement:

~~A B C → abc, B C → bc,~~

~~A → a. Method of Differences A B C → abc,~~

~~A D E → ade, ∴ A → a. Method of Differences:~~

~~A B C → abc, B C → bc, ∴ A → a. Difference exp.~~

for experiment; agreement where exp. is impossible; diff. yields causes, agreement yields uniformities. Method of Residues:

$A \rightarrow a, B \rightarrow b, A B C \rightarrow abc, \therefore C \rightarrow c$ . Comes from method of diff.

Method of Concomitant Variations: in ABC, abc if whenever a changes A changes, or whenever A changes a changes, a + A are connected causally.

Useful for permanent causes. Principle of Composition of Causes asserts their independence. Possibility causation varies in conditions diff. from those at the time.

Hypotheses must be proved by <sup>wantually</sup> 4 methods; is a "opposition." Deductive method: induction (or prior deduction), retroaction, verification. Hypothetical method: hypotheses, <sup>inductive method</sup> "Verification is proof" when cause (1) exists (2) is known to affect effect. Provisional hypotheses lead to better ones, when inadequacies show (Predictability no criterion). But hypotheses may be, but cannot be proved, true (as valid only if later hypothesis <sup>verified as facts</sup> is ~~proven~~) [contradiction or disproved]

### Whewell - Novum Organon Renovatum

Colligation of facts - when we establish a precise connection among sense-phenomena. This occurs when (1) we make observations +/or expts. on the phenomena, (2) we make guesses or hypotheses (often on basis of accidents). A series of hypotheses is rapidly applied; the one which fits the phenomena (facts) exactly is a principle. Predictability a criterion. Induction - process of true colligation of facts. Consilience of Inductions - inductions from several classes of facts coincide; criterion. Induction involves superposition of a new mental element on the facts. Explication + colligation yield all our real gen' knowledge. New mental element generally overlooked; some seek not discovery but prof. Consilience of inductions leads to convergence towards Simplification of the Theory and unity; also to successive generalization, accomplished by colligating facts, then colligating the colligations (inductions) etc. [a dialectics]. Form for deduction - syllogism, for induction - inductive table of colligation of colligation. E.g. for Whewell: Kepler had idea of space, Conception of ellipses. Applied it as a hypothesis to the Facts of man's position, and induced by colligation that Planets moved elliptically. Conclusion was not obviously in the facts previously. To be conclusive, one Defs. + Proposition should be only ones fitting all facts. Induction never proved; merely, it works. [corresponds to modern scientific attitude]

Induction moves to greater generality, deduction to greater specificity on the same ground, but deduction moves gradually, while induction arrives all at once, leaving the intervening ground to be covered by deduction. Laws of phenomena - effects;

cf. M.11 Theories of Causes - causes, in that order; former only is certain. We should, however, study both. Aristotelian theor.-prac.

cf. M.11 dichotomy. Art may, usually does, exist w/out scienc.

Mill - induction from facts alone. Whewell - induction from both facts and conceptions.

II (4) Inquiry and Knowledge : the nature of things

M.11 - System of Logic

[Things are in parts; parts studied] If a resemblance of instances. For induction to be "true" there must be a fundamental uniformity in nature. But there is also a variety in nature. In addition, (1) we do not have "true" induction yet, since we are seeking it, (2) we must discover which aspects of the universe are constant and which are not, and (3) we cannot use "true" induction to discover (2). Accordingly, (a) how can we call induction "true" if we have not used "true" induction to find it? (b) what is the method (second-best, primitive) we have used? (c) what is the uniform aspect of the universe discovered by this method?

If induction is merely observation of common characteristics of a class, it is not proof; there is the possibility that the next instance will contradict the induction. Yet, there is a probability degree of certainty: the more conforming instances, the greater certainty. (a) This is the primitive method, [Bacon's simple enumerative induction] ((8)). And the one enumerative induction which involves the most cross is that there is uniformity in nature ((c)).

Laws - <sup>complex uniformities</sup> "effects"; Laws of Nature - causes; uniformities reduced to simplest relation (We need experience to know when and to what degree experience is reliable.) Primitive induction only possible induction, since "true" induction dependent upon it.

### Plato - Phaedo

[Things are parts; parts studies] Method: assumes some principle judged to be strongest; affirm as true whatever agrees, as untrue whatever disagrees. Here, cf. Bacon assumes absolute. Things possess properties insofar as they participate in the relevant absolute; things come into existence only insofar as they participate in cf. Aristotle their own proper essence or absolute. Criterion: considering of results and progression to greater generality. However, must be remembered that we have not <sup>yet</sup> reached absolute truth. Two opposite absolutes cannot coexist in the same place of the same body; also, that which brings an absolute cannot also bring its opposite. ∴ the soul, which brings life, cannot participate in death - it is immortal. For resolution/recognition of disparities the standard for comparison is recollection of absolutes. Scientific method: (1) consider a phenomenon (thing) (2) consider how its attributes (participation in absolutes) affect the phenom. (3) reduce no. attributes necessary for phenom, (4) reduce to the absolute participated in.

### Aristotle - De Partibus Animalium

[Things are things; things studied]. Starting point is always the final cause (first principle), that for which a thing is done, that to which a thing tends. 3 necessities: (1) absolute necessity in metaphysical sense - that which is (2) absolute necessity in sense of what the matter contributes to the form (e.g. brick wall), (3) hypothetical necessity in the sense that

To perform a certain function the form + matter must be such + such. Method for biology: state definitive characters that distinguish the animal as a whole; explain the matter and form of the whole; and then deal similarly with its organs + constituent parts. The parts of the soul that constitute the animal nature must be dealt with. Two causes - necessity + the final end; both must be considered.

#### II (B) Inquiry + Knowledge: the circumstances of inquiry

##### Dewey - The Needed Reform of Logic

[Inquiries, methods, objects all evolve. The circumstances of inquiries become all]. Original Aristotelian logic:  
(1) forms are forms of subjects insofar as subjects are known (2), logical forms of knowledge consist exclusively of definition + classification of the necessary (3) no room for a logic of discovery. With advance of science, and the destruction of absolutes, the originally existential logic becomes merely formal. "quantity, wholly irrelevant to essence, was irrelevant to logic; cause + effect was basic.

Today quantity + functional relation basic. For Greeks, universe was complete, finished perfect. Today, it is open and in process. ∴ Aristotelian logic inapplicable today. Need for unified logic that takes account of the 2-way movement between science + common-sense, so that, e.g., experimental + operational inquiry becomes available in inquiries in field of common-sense [no theor.-prac. dichotomy.]

##### Bergson - Creative Evolution

[Inquirer has evolved] Principle: the human has its own peculiar evolution. The mind has evolved to assist the action faculties in adaptation to environment. There is a kinship of logical thought with

inanimate, unorganized, matter - whence the triumphs of math + physics. However, ~~it is~~ therefore, our thought in its purely logical form is incapable of adequately understanding life ... also, a method different from that of the physical sciences should be used. There exist other forms of consciousness; if these were amalgamated w. intellect, there would be "a consciousness wide as life." Hence, the report of these hidden powers, this vestigial "earthworm-consciousness" present in man, w. his intellect would yield <sup>tiny</sup> knowledge of life + evolution. Theory of knowledge and theory of life are inseparable.

### Linnacus - The Genera of Plants

[evolution of objects of inquiry] The genera + species are natural. But the key to a natural basis of classification cannot be found. Any ~~one~~ essential basis — (i.e., based on 1 differentiating character) would be useful + close to natural, but does not work. ∵ we must use a factitious, artificial basis as the only workable one. L's is based on 4 mechanic principles + 26 characters.

## Principles

### I. A.

#### Mill - Utilitarianism

Nothing is desired except happiness. ∵ happiness is sole end of human action; its promotion the criterion for judgment of morality and all human conduct. Desiring a thing + finding it pleasant, + corresp. negative, are inseparable phenomena; a mode of naming some psychological fact. [pleasure = happiness]   
 cf. Bradley

#### Bradley - Ethical Studies

We may act consciously or instinctually without consideration of the end; i.e., we may act purposefully, but not [directly] in order to fulfill a desire [as, e.g., for happiness]. Distinction between "desiring an object and thinking of the satisfaction concomitant w. achieving it. Clearly, the pleasure of (1) is not the pleasure of (2). What moves to action is always (1), not (2). No selfishness consideration for (1), as for (2). [But perhaps (2) causes (1)]. Proof from reason.

### I. B.

#### Bentham - Principles of Morals and Legislation

Ethics - art of directing men's actions (in re self and others) to the production of the greatest possible quantity of happiness (of men + other animals). The question "Who's happiness?" answered not on grounds of "Can they reason?" but on grounds of "Can they suffer?" Feeling the principle

#### Kant - Metaphysics of Morals

Ethical action - any action involving freedom of choice. Since only man has such freedom, only man is "moral being" only man is capable of obligation. ∵ man's only duty is to himself; no direct reason to be kind to animals. Review the principle.

## II : Principles and Pleasure

### Plato - Republic

Tyrannical man ruling as tyrant is the extreme wickedness, the supreme injustice. He, said Thrasymachus, is happiest. By comparing him and the supremely just man (the philosopher) we may determine which is happier.

Characteristics of the tyrannical tyrant: never satisfied w. acquisitions, desire to desire, dominated by sensual appetites, hated and feared, hates and fears — ∴ certain activities restricted, etc.

Do the just or unjust life happy? 3 discussions

(I) Political analogy. Principle of argument: analogy of man + state, and tripartite psyche. In a tyranny, the state [i.e., the people] is most vicious, poor, afraid, enslaved, and, consequently, unhappy. ∴, by analogy, the tyrannical man is most " he is enslaved by his lusts, etc.; each adjective applies

Three primary classes of men: (1) the lovers of gain — lustful element foremost, (2) the lovers of victory — spirited " " , (3) the lovers of wisdom — philosophical " "

(II) Judgment discussion. Principle of argument: tripartite psyche. Each of the 3 men would think himself the happiest. But the philosopher will judge best since (a) he has experienced all 3 pleasures, and (b) since judgment is a rational process, the rational man is the best judge of what is greatest pleasure (since, e.g. (1) + (2) may be deceived into thinking pleasure an absence of pain).

(III) Metaphysical examination of pleasure & happiness. Principle of argument: tripartite psyche;

The rational element, dealing w. the absolute & unchanging, deals w. the most real. ∴ the pleasure of wisdom is the most real pleasure. It enables other 2

elements receive "truest pleasures they are capable of receiving." Also, that farthest removed from reason is farthest removed from law + order. ... the king lives 729 times happier than the tyrant. The just man is happiest, because he has ordered the parts of his soul in harmony. [Happiness = pleasure]

### Aristotle - Nicomachean Ethics

[Personification of ethics. A book of ethics, to be practical, should list extremes of habits (vices). The good man should seek some mean between the extremes. Virtue is golden mean.

external causes  
nature of man (internal causes) → second nature → habit → activity → happiness

Happiness - what is derived from good habits.]

Some suppose the good is pleasure, honor, wealth. Consider contemplative life.

The good is the end of all we do; chief good final end - that desirable in itself + never for something else. Happiness is something final, self-sufficient, the end of action. [Happiness ≠ pleasure]. Happiness the chief good. Characteristic function of man - human activity. Human good - activity of soul in accordance w. virtue (Precision must be appropriate to subject matter).

Pop. opinions uphold the above. The chief good must be in a state of activity. Virtuous actions must be in themselves pleasant, since this pleasure is by its nature pleasant. Happiness is the best, noblest, + most pleasant thing in the world. All 3 goods (external, soul, body) necessary, first since happiness needs a sort of prosperity.

Virtue is concerned w. pleasure + pain. Pleasure in doing virtuous acts indicative of the possession of the virtuous disposition, acquired by training until it becomes a habit.

principle of argument:  
reason, pp.  
opinion

Some say pleasure is the good; some say it is thoroughly bad. Second view inconsistent w. experience.

Pleasure is one of the goods & not the good (as it is more <sup>desirable</sup> pleasant if wisdom is added).

Neither is pleasure the good, nor is all pleasure desirable. Some pleasures are desirable in themselves, being different in kind or in source from others not desirable.

Pleasure is complete + whole at any time; not a process, but an end. Pleasure concomitant of activity. Pleasure cannot be felt continuously, because we cannot have continuous activity. Pleasure completes activity, + thus perfects life.

Pleasures intensify activities and are proper to them. But diff. activities have diff. appropriate pleasures, + pleasure differ in kind. Pleasure proper to worthy activity is good; that proper to unworthy activity is bad. The activities of the perfect + supremely happy man + the pleasures that perfect these activities are the activities + pleasures proper to man. (Pleasures involved in activities (2) more proper to them than desires (1))

Hume - Inquiry Concerning the Principles of Morals

Both reason and sentiment are the bases of morals. Procedure: discover true origin of morals, + then the extent the above is true will become apparent. To do so we investigate popular opinion of virtues, and extract from these particulars the general principle of morals by the experimental method.

Common interest + utility are commonly accepted as reason for particular actions. Although education has a powerful effect in maintaining and sometimes establishing customs, it is certainly not the source.

c.f. Aristotle Social virtues have "a natural amability." Self-love not the principle as common saying shows. Usefulness is agreeable; useful for the interest of those who are served by the character or action approved of; the interests of society are not indifferent to us. The <sup>benevolent</sup> principle which accounts in lg. pt. for the origin of morality is: contribution to the happiness of society. There must be some authority of the principles of society over our sentiments + actions. Our sympathy for others distant from us should be on the same level as for ourselves (cf. object close + distant).

c.f. Mill  
c.f. Kant If a person's self-love, by whatever means, gives him a concern for society, he is to be esteemed. However, our common feelings and most unprejudiced notions, + Occam's razor yield disinterested benevolence as the principle. Just as we have an inherent desire for food, with no thought for the resulting gratification, there is a desire to do others good, which, by means of that affection, becomes our own good, and is afterwards pursued jointly for benevolence and self-enjoyment.

c.f. Bradley,  
Mill

### Mill - Utilitarianism

Claims Socrates asserted utilitarianism in *Protagoras*. Den. principle of moral judgment is a branch of reason, not sense. Not susceptible to proof in the mathematical sense. Utilitarianism implies the pleasurable + the ornamental, among other things. Utility - greatest happiness principle: actions are right in proportion as they tend to promote happiness [happiness = pleasure], which is the only thing desirable as an end. Pleasures of intellect, imagination, morals higher than "of sense". That which is <sup>more</sup> pleasurable regardless of moral injunction is the more desirable pleasure (morally). To determine which is more pleasurable asked the man who has tried both. ["ask the man who owns one"]. Better to have

c. Aristotle,  
Plato

great capabilities for pleasure, than to have one easily satisfied". "Better Socrates dissatisfied than a fool satisfied" I.e., there are <sup>different</sup> kinds of pleasure, quantitatively + qualitatively. Happiness is not continual pleasure, but moment of pleasure among few + transient pains, actively seeking happiness, + not expecting more from life than it can give; alternation of tranquility + excitement. 3 principle causes of unhappiness: (1) selfishness (2) lack of mental cultivation. The happiness involved in utilitarianism is the happiness of all society (cf. martyrs). Should be done: (1) law and (2) education should seek, so far as is possible, to identify the happiness of the individual w. the good of the whole. Utilitarianism should not be the motive of every act (Motive has nothing to do w. morality of the action, though much w. worth of the agent.) Few people have opportunity for it. on an extended scale. Must weigh conflicting utilities. Subordinate gen. principles follow from the prin. of morality.

c. Aristotle

All other things desirable only towards happiness as an end. The sole evidence that happiness is desirable is that people do desire it. Virtue is not naturally part of happiness, but is capable of becoming so. Means become pt. of end. Will diff. from desire. The will to be virtuous implied when the person desires virtue to be happy.

c. Aristotle  
15

Hume's natural desire for doing ~~deceit~~ ~~deceit~~ cont'd by  
Dobu society.

proving validity of Benedict's description:

Dobu (Melanesian group): dominant principle: an-  
tagonism; virtues: treachery, malversation,  
malignancy especially by magical incanta-  
tions, woman exclusively a sex-object,

Zuni (Am. SW) dominant principle: conservatism;  
virtues: apathy, non-violence, anti-progress

Kwakintl (Amer NW): dominant principle: competition;  
virtues: desire to beat others, conspicuous destruction  
of property, violence

Homosexuality today considered immorality con-  
fused in ancient Greece etc., etc., etc.

But in each case "happiness" is the goal.  
The diff. lies in that it involves diff. virtues.  
<sup>actual</sup> <sup>relativist</sup> pleasure in diff. societies Aristotle applies  
completely to all "insofar as happiness"  
"virtue" are remembered to be relative to the cul-  
ture. Only places of diff.: here A. involves con-  
templative life w. highest happiness still also ap-  
plies completely. By Relativity of virtue is sup-  
ported by importance in A, P, M. - H of edu-  
cation in inculcating moral values.

Consider  
affirmative

However A. says certain pleasures are naturally  
pleasurable, others not. Mill, however, says pleasure  
are "only insofar as they lead to the end,  
happiness. Thus Mill would be closer to extreme  
relativists' point of view, while A. maintains that  
there are certain basic elements of happiness. He  
could maintain that, e.g., the Dobu may be happy.  
But not so happy as the contemplative man.  
Mill <sup>probably</sup> could not, since ~~happiness~~ <sup>desire</sup> is defined solely  
in terms of what makes anybody happy (although he seems  
to hold that life of intellect is naturally best)

Pleasure-happiness : one for us, diff for C. (Chap. the state; pleasure the particular elements leading to happiness.)

→ still inconsistent on this point, but does not affect argument, since happiness determined by stimulus of tranquillity + pleasure.

#### Note on Pleasure Readings

- Mill's system fits man in any society; it is flexible enough. Aristotle's is derived from certain principles + propositions of man, and so should also fit any human society. However, consideration of cultural anthropology shows that Mill's would in fact fit, while Aristotle's would not (~~— moderation in habit pattern is not always virtue - cf. Dobro vs. Zunni~~). However, if habit-menus rule for each society, world won't. But from ~~the~~ view, cult. anthro. we see that happiness, although universally the good, means diff. things in diff. places, + diff. virtues receive approbation " " " ".
- For Aristotle: how do we know the supremely good man? Isn't this ~~a~~ <sup>certainly reason</sup> political principle? Since happiness is most pleasant thing in world, we may settle question of which of several pleasures is best by referring ques. to man who has tried all.  
How do we know which pleasures + action are desirable (morally)? V. good man: How do we know good man? Virtuous dispositions indicated by pleasure in doing virtuous acts. But how do we know which acts are virtuous?

But, diff. kinds of happiness.

However, when Mill says that that pleasure is best which is most pleasurable (one morality of Kant), and that this can be determined by the man who has experienced both, we have a means of transcending cultural boundaries, + we find that for still, too, there is a certain expectation into which happiness must be ~~fit~~ common basis for morality, since there is a criterion for comparison of moral actions. But the extent of pleasure in the act is of course structured culturally.

## Question

Note transition from good to greatest good.

What is happiness principle?

- ③ What is the principle of greatest happiness?
- ① What is the good? (How do you think? - own)
- ⑤ Is happiness = pleasure. (The good is not pleasure; but - reasoned argument, pop. opinion)  
a. kind of greatest
- ⑥ What is relation of pleasure to happiness?
- ⑦ If not suff., what else needed?
- ⑧ How do we know which kind of pleasure is nec. for happiness? greatest
- ⑨ Which kind is nec.?
- ⑩ : ⑦ + ⑧ happiness

Starting w/ ③ - ⑩ we arrive at ③

For A. we will use some thoughts which may be either inferred from given readings or found in other.

Mill	Aristotle	Plato	Hume
all similarly derived utilitarianism	contemplative life	well-ordered psyche	utility + common interest
utilitarianism	happiness		
happiness			
yes no dec., not suff. (intelligent) edu. + class** most pleasurable pleasure - motives plans in identification of per. + pub. interest	no necessary; not sufficient external goods edu. (intell.) good man's best & organ. prefers pleasure plans of con. templative life	yes + suff.	+ suff.
			natural anim. bliss fulfillment of in- herent desire + benevolence

some pleasure & often not naturally arrived at.

\*  
†

① & some. Yet ② diff. Let us examine a method of covering both A. + M. along jointly & see certain differences in each step. Up to ① practically identical. ② diff. Why?

important { Mill considers society as whole...  
Aristotle considers individual almost alone...

Thus Mill's happiness involves a more active participation in the Aristotelian practical, while A.'s happiness is in the "theoretical". (practical & phil. phi second. Differently at Hume, the change comes in that A.'s prae. wisdom is ~~philosophical~~ (prac. wisdom + phil. wisdom)

However A. says prae. wisdom leads to a good life from which we may infer (1) A. is inconsistent or (2) he is aware that there is an active, "doing" pt. of the good life in addition to the contemplative, as is, in fact, borne out in his association of a pleasure w. each activity (= happiness w. certain pleasures). Thus A. has the ~~overruled view~~ A. would put prae. life over theor. A. then over prae.

(C)

he joins himself to the great deep  
Law of the World, in spite of all super-  
ficial laws, temporary appearances,  
profit-and-loss calculations; he is  
victorious while he co-operates with that  
great central Law, not victorious other-  
wise: — and swell his first chance  
of cooperating with it, or getting into the  
course of it, is to know with his whole  
soul that it is; that it is good, and  
alone good! — Carlyle

- Denial of self; cf. reality is shown by A.  
Dobling Plain becomes one with immensity.  
Athenian = Brahman

- " ... I will allow a thing to struggle  
for itself in this world, with any sword  
or tongue or implement it has, or  
can lay hold of. We will let it  
preach, and pamphleteer, and fight, and  
to the uttermost bestir itself, and do,  
beat and claws, whatever is in it;  
very sure that it will, in the long-run,  
conquer nothing which does not deserve  
to be conquered. What is better than  
itself, it cannot put away, but only  
what is worse. In this great Duel,  
Nature herself is impure, and can do  
no wrong: the thing which is deepest-  
rooted in Nature, what we call trust,  
that thing and not the other will  
be found growing at last." - Carlyle

Physics 257 (MWF 10:30)  
Physics 225 (MWF 11:30)  
Math 261 (MWF 9:30)

Physics 215 (MWF 10:30)  
Physics 226 (MWF 11:30, Th 1:30)  
Math 264 (MWF, 12:30?)

Astr 390  
Math Bio 200 (Tu, Th, F, 11:30) → Ger B  
Eng 202 (Tu, Th, 3:30-5) Comm 392  
Ger A (MWF, 1:30) Hist 335 (MWF, 9:30)  
Orient Lang 391 (MWF, 2:30)  
Phil 385 (Tu, Th, 11:30-3)  
Comm 391  
Hist 334 (Tu, Th, 9:30-6)  
Soc Th 360  
Soc Th 405

Physics 216 (Tu, Th, S, 9:30)  
Physics 227 (Tu, Th, 10:30) W 1-5  
Astronomy 302 (Th, 11:30-3)  
Astr 342  
Eng 203 (MWF, 1:30)  
Ger C  
Phil 306 (MWF, 10:30)  
Phil 387 (Tu, Th, S, 9:30) ↘  
Comm 393  
Hist 337 (Tu, Th, 9:30-6)  
Pol Sci 268

- "Die Fahne Hoch," Nazi rising song before + after Hitler's speech "Seig" + 100,000 people answer "Heil." <sup>(ting)</sup> Nazi's national-Sinister of Germans + Jews. German nationalist spirit very strong. Unification sought. Stealing from jeeps, explosion in nearby U.S. American retaliatory threats if any of them hurt. Bombing of Hamburg workers to incite them to revolution. "No one ever thought of it."
- Ozymandias, King of Kings
- Silent In Darien
- Whiffing Through the Tulgey Woods
- What Immortal Hand . . .
- In the Chambers of the Sea
- A Darkling Plain
- The Will-o'-the-Wisp
- Thunder and Crystal
- Is the Black Stone of th. Kaaba in Mecca a specieship?
- Norse mythology: the God Wünsh = Wish At the foot of Igdrasil, the Ash-Tree of Existence which stretches between Heaven and Hela, sit the three Nornes, Past, Present, Future. In Jötunland, Giantland is the Midgard Serpent which tail-in-mouth gnaws + keeps up the whole world. Ragnarök: The Twilight of the Gods. Last appearance of Thor on earth, admonition to King Olaf.
- "Neptune was seen once at the Nemean games"
- Priests — Carlyle, On Heroes-Hero-Vaulty
- "I say, this is yet the only bone mortally known. A man is right and invincible, virtuous and on the road towards sure conquest, precisely while

### A Darkling Plain

- Since, as my honor paper shows, all life is structured only for gene multiplication and survival, it should be possible to construct a Weltenschau upon this. We are bucket-passers bound to past + future, and related to all living creatures genetically. Morality: reproduction <sup>as offspring</sup> & survival. Religion: the gene. Cf. reproduction in Freud.

Predetermination: limits set by genes, free will within these bounds. War, medicine, science. Rationality, the pinnacle of humanity; not to deny importance of instinctual emotion.

Woman. Man kind. Possible radiation-resistant mutation by cysteine growth in polypeptides? Necessary because of <sup>f. bacteria, penicillin</sup> mutagenesis + carcinogenesis. Yet it is disturbing to find ~~peace, love~~, joy, love, light, certitude, peace, and help from pain relegated to the pragmatic. Aesthetics; cf. Freud. Cf. Spencer, Bergson, Mill + the utilitarians, entelechy.

Does there not exist another element, though? What is the world? What is this "I"? The desire for liberty; can it be wholly because selected for? Is there not a spiritual?

I do not know — yet!

Man originally existed in fertile areas. Various pressures, biological, social, economic, political, even religious, forced him to extend his dominion. In extension, survival became more difficult. Necessity the mother of invention, human progress.

— envelope, enveloped

- A very fast spacetime should be very massive by Lorentz transform. In vicinity of large dense mass space is warped - Schwarzschild effect. Now it is the mass of the universe which keeps it curved (Einstein). Additional curvature may do: ○ through a fourth physical dimension. ∴ instantaneous matter transportation. Investigate topologically, eventually.
- Two short story ideas: return to Bensonhurst, The Branch & the Brins.
- Sh'goz-a-gozy, Mon shog-a-gozy,  
Sh'goz-a-gooz-a-mooz-a-gooz
- Forest ranger lookout summer job opportunity
- Doors of Perception: does mesalin work on all healthy people as on Huxley? Or do scientists see unified field theories?
- Try history essay on Comedies + History, Population Growth + the Increasing Power of the Masses. v. of Dassat.
- Missions — fading away of a baby because of lack of mother love.
- The Flying Dutchman — <sup>prob. + in Flying Dutchman</sup> van der Donkhan
- M.I.A. a Soviet agent P (cf. Malenkov a U.S. agent in I Killed Stalin)
- Why Jews are hated (in a Carol)
- " ... at last she was

Came, and you turned + left. We went apart  
Two proud, indignant creatures, with no one  
To old experience to show the way  
To live alone with sweetest memory. "

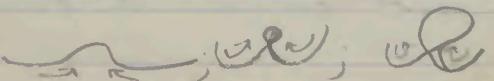
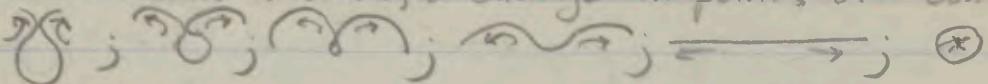
Q, Sonnet II, June 7, 1953  
- Louis D'Asprey Maggi, 10th Duke of Canfallo:  
"Kind Hearts are better than Coronets"  
— Tennyson

(so sword hand free). Shaking hands. Comes  
unlucky.

Surf names: Johnson, Jackson, Carlson, Jamison, etc.  
Solomon, Josephson, Erickson, Sonnerson, etc. (no women's names)  
Clark (Clark), Smith, Tanner, Carpenter, Goldsmith,  
Cooper, Farmer, Bender, Baker, Barber, Brewer,  
Bishop, King, Prince (no Queen, Princess), Pope,  
(no General, Chief, Leader, Tribune, Christopher)  
Painter, Bowman, Tailor, Taylor, (no Peasant, Worker,  
Sweatshop, Dabney). Jews often Goldsmith, Silversmith,  
Lipschitz, Putnam.

- granite, granite
- Jay Adair: C'est tout
- Cincinnati station went up to 5 million worth;  
fillings, screwdrivers, etc.广播电台. Disconnected  
incandescent lamps lit, etc.
- Mirror for Man - Clyde Kluckhohn - What is man? How?
- Possibility viruses, plagues, plaguegenes are not  
agents or parasites, but invaders?
- Zorba: freedom <sup>folly</sup> and the sense of wonder.
- Reading Zorba the Greek, Augustine's Confessions, +  
Faust simultaneously; wonderful complementarity.
- Rumplestiltskin, Rapunzel
- There is a beautiful idyllic whisp of a  
mood immediately after the carnival scene  
in the Epiphany of Feste Roman. It captures  
somehow nostalgia and love and the sheer  
joy of living all within a Roma setting.  
These 18 note represent something very im-  
portant for me, perhaps related to travel
- I want, not passion, but compassion.
- moon, Moon
- Roman Holiday, From Here to Eternity
- convict, convicted
- Charles Brando, Oldfield in King Tudor

investigated the fact that in the presence of a very massive body, space is bent or warped. Connection? At the point of contact, I a superimposition of structure but not of matter (cf. 2nd man case). Or if I superimposition of matter, the effect is cumulative. <sup>Entirely like</sup> Massive body bends more mass, space is being warped continuously; there is a continuous motion, a change in points of contact



a pulsating universe? After pt. ① it is the other side of universe which is in contact.

- "Ebbtide"
- "How High the Moon"
- Ferns died out just before reptiles. No ferns, no loxalxes (roughage) for herbivores. Dinosaurs, no h.d., no carbd. Dinosaurs died of constipation.
- Story about operations being 'bad'. Indians. Among Indians, certain fish taboo - poisonous; no one recently ate it; obviously someone long ago ate it & died; causal chain established; i. taboo. Also some fish ~~taboo~~, not poisonous. Someone ate it and died, but not of fish. Planting when moon full - established that plants grow best when continuous light. Witch hazel - organizer. Some connections, e.g., moon cycle w. menstrual cycle may have been causal, some intermediary link gone, now no longer causal. Many incidents become generalized; e.g., 13 unlucky; salt over shoulder. Consider walking on outside of street w. woman (Eng. - to shield her from falling roof) onwards in France

- in re Cancer: <sup>inc</sup> growth of cells leads one to postulate somatic mutation as cause. It appears ~~as~~ no. of cancer cases is increasing w/ time. There is no reason to presume  $\Delta$  thermal agitation causing spontaneous mutation. Hence  $\mu$ -some must be extrinsic, i.e., radioactive? Temperature increasing? Try relating cancer to <sup>biogenic</sup> biopat activity + to radioactive phenomena. Or perhaps cancer is of extraterrestrial origin, i.e., very extraterrestrial, + represents a problem which we must solve — or be bypassed (cf. cancer in other mammals, in non-mammals)

- someone named Cherenkov, working in Vavilov's laboratory discovered a "new kind of radiation" It is explained by Tamm + Frank of Mandelstam's school as "due to electrons moving at a velocity exceeding the phase velocity of light in the given medium." [- Prof. Dmitry Ivanenko, Theoretical Physics in the U.S.S.R. During the Past 25 Years, *Nature* 151, 294, 1943 (3rd)] **INVESTIGATE!**

- Helen Eddy - Star Jones' Orchestra doing Ghost Riders in the Sky
- Anthony Adverse — no Q
- A Schweitzer Quest for the Historical Jesus
- "Bread-and-butter"
- Dragon of Moches an medial Surface of Left Eyeball of Dogfish Shark" !
- Ethics of Ambiguity
- The Dutch boy who put his finger in the hole in the atmosphere bubble to keep the air in until help came.
- Hyperspace: 3-dimensional space bent through fourth dimension back upon itself  making contact at just one point. Orientation of all other points with one another is undisturbed. Schneezylinder has

$$r = \frac{1}{2}m \left( \frac{ds}{dt} \right)^2 + E, E = \text{energy term}$$

$$r dt ds = \frac{1}{2} m ds ds + k dt dt$$

$$\int \int r dt dt = \frac{1}{2} m \int \int ds ds + k \int \int dt dt$$

$\Rightarrow$  constant by hypothesis

$$\int \int r dt dt = \frac{1}{2} m \int s ds + k \int t dt$$

$$\int \int r dt dt = \frac{1}{2} m \frac{s^2}{2} + k \frac{t^2}{2}$$

$$\boxed{\begin{aligned} \frac{r^3}{3} &= \frac{1}{2} ms^2 + kt^2 \\ T^3 &= \frac{3}{2} ms^2 + 3kt^2 \end{aligned}}$$

when  $r = \infty$

$$\boxed{T = \sqrt[3]{3t^2 \left( \frac{1}{2} mv^2 + E \right)}}$$

$m$  = mass of object;  $v$  = velocity increment  
 $>c$ ;  $T = f(t)$

For electron:

$$E = \frac{1}{2}mv^2 = \frac{1}{2} \times (9 \times 10^{-38}) \times (3 \times 10^{11})^2$$

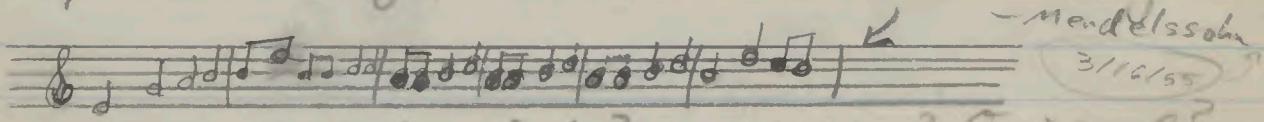
$$= \frac{1}{2} \times 9 \times 9 \times 10^{-6}$$

$$\approx 4 \times 10^{-6} \text{ ergs}$$

may be from sub-atomic processes of times  
a, b, c, d + e. Explanation of intergalactic +  
interstellar H<sub>2</sub> gas clouds? Jansky radio-  
tions? (Applications to turbulence + magneto-  
hydrodynamics) (V. article in Astrodaily, via, The Time-  
Traveler.)

Calculate whether the statistical frequency  
of elementary particles reaching L.C.B.K. cor-  
responds to matter lost in the reaction.

- Sadi Carnot's contribution to thermodynamics  
essential for industrial development of XIX  
century. V. also his political achievements  
as president of France. The Hebrides: Engel's Case



- Swan Lake? Die Moldau? Original?

- wait (on table, for person)
- von Schweizer - German magician (if Hend. n.)
- continuous creation of H<sub>2</sub> gas so destroys increasing  
entropy "law." However if process is throughout time,  
there is no SS considering both times.
- point
- conservation of energy, increase of entropy are  
empirically derived them
- The coming of maturity may be said to have  
started with the realization that Q is not a  
mt, just a woman.
- Ernest Bloch's Concerto Grossso (1925)
- Dreyer's powerful Despite at Thetis  
+ what is after in La Bain Turc?

$$d\tau = \frac{m}{2} \left( \frac{ds}{dt} \right)^2 \cdot (1) \quad \tau \text{ is the time of the object}$$

$$d\tau dt^2 = \frac{m}{2} ds^2 + kdt^2 \quad \text{energy to reach velocity of light}$$

$$\int \int d\tau dt^2 = \frac{m}{2} \int \int ds^2$$

~~sp. m/s~~

$$\tau t^2 = \frac{ml^2}{2} + C$$

- insence, increased virtue from Latin vir - tus : man -liness
- Thucydides describes plague of Athens in De Rerum Natura, vi, 1138-1286; perhaps malaria - v. W H S Jones, Malaria + Greek History, 132
- Thucydides' failure at Amphipolis resulted in Leon's and disaster. Socrates also found there. His gold later financed Macedon's armies (mean P. Lilliput)
- In nuclear reactions, if a certain small original mass, that cannot be accounted for in the products or the energies released. Fermi has explained this by postulating the neutrino. However, if the energies of the process are sufficient, rotational equivalent (light) velocity may be exceeded for certain particles, and these are projected back into time.

This causes the spontaneous continuous creation of  $H_2$  (v. Fred Hoyle). The hydrogen at the "beginning" of the universe can be similarly explained, and the whole creation process becomes circular & dependent on the conservation of energy ~~time~~ time only. (Conservation of  $\tau$ -action, FSR?) Such nuclear reactions in stars.  $H_2$  appearing at time  $t$

$$\frac{1}{2}mv^2 = mgh; v^2 = gh, v = \sqrt{\frac{h}{\ell}}, v^2 = \frac{\ell^2}{\ell^2} \cdot 2g\ell, \ell^2 = \frac{\ell^2}{2g}$$

If  $\ell = E$ , the units of  $\ell$  are derived as follows:

$$E = \frac{1}{2}mv^2 = \frac{1}{2}m\frac{\ell^2}{\ell^2}$$

$$\ell^3 = \frac{m\ell^2}{2}; \ell = \frac{m^{\frac{1}{3}}\ell^{\frac{2}{3}}}{\sqrt[3]{2}} = \sqrt[3]{\frac{m\ell^2}{2}}$$

$$\Delta \ell = \frac{\Delta m^{\frac{1}{3}} \Delta \ell^{\frac{2}{3}}}{\sqrt[3]{2}}$$

At  $v = c$ ,  $\Delta m = \infty$ ,  $\Delta \ell = 0$ ,  $\Delta t$  is indeterminate.

1 second  $\approx$  (distance) $^{\frac{1}{3}}$  travelled by a (mass) $^{\frac{1}{3}}$   
(If an atom of mass travels 8 cm,

$$\ell = \frac{2 \times 4}{\sqrt[3]{2}} = \frac{8}{\sqrt[3]{2}} = \frac{2^3}{2^{\frac{1}{3}}} = 2^{\frac{8}{3}}$$

If a 27 gm travels 27 cm.

$$\ell = \frac{3 \times 9}{2} \cdot \frac{3^3}{2^{\frac{1}{3}}}$$

What does " $\ell = \sqrt[3]{\frac{m\ell^2}{2}}$ " mean? Is it the time to move in a distance  $\ell$ ? Obviously not. This is false-to-fact. The error is in the step:

$$E = \frac{1}{2}m\frac{\ell^2}{\ell^2}, \therefore \ell^3 = \frac{m\ell^2}{2}$$

These  $\ell$ 's are different!

If we define time in terms of energy, we cannot define energy in terms of time.

[But consider "F=ma"] But if we merely define it in terms of  $E$ , what is  $E$ ? And vice versa (which is what physics does, time is conventionally undefined) i.e. defines each in terms of the other and use the calculus.

- Christmas → winter solstice
- In 5th cent AD, Church created the feast of the Assumption to supplant the mid-August harvest festival of Artemis at Ephesus [Artemis = golden of teeth virginity + motherhood - cf. Mary]
- Hephaestus - Quasimodo
- Nemesis punished those guilty of hubris - insolence or pride
- A sneeze or stumble in church was reason for abandoning a temptation
- suicide a crime punishable by death
- drawings, underweary, lewd, artist, water-gutter,
- Freudian interpretation of Jack & Beanstalk, cow leaves out windows, climbing stalk, goes laying golden eggs
- If time is an energy quantity, it can be expressed as

$$t = ml = E \quad F = ma = m \frac{l}{t^2} = \frac{ml}{m^2 l^2} = m^{-1} l^{-1}; \quad F = \frac{1}{t} = \frac{1}{E}$$

$$mv = m \frac{l}{t} = \frac{ml}{ml} = 1 \quad v = \frac{l}{t} = \frac{l}{ml} = \frac{1}{m}$$

$$mv^2 = m \frac{l^2}{t^2} = \frac{ml^2}{m^2 l^2} = \frac{1}{m}$$

$$[mv^2 = \frac{1}{m}; m^2 v^2 = 1; mv = 1]$$

$$E = mh = mv^2$$

$$= ml = \frac{1}{m}; m^2 l = 1 = m^2 v^2; v^2 = l; v = \sqrt{l} = \frac{1}{m}$$

$$J = Fl = 1 \quad W = Fl = \frac{l}{ml} = \frac{1}{m}$$

$$F = ma \longrightarrow F = \frac{1}{t} = \frac{1}{ml} = \frac{1}{E}$$

$$mv \longrightarrow mv = 1$$

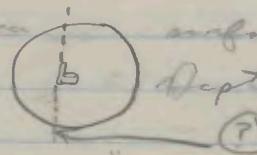
$$\frac{1}{2} mv^2 \longrightarrow E = \frac{1}{2m} = \frac{mv}{2m} = \frac{v}{2} = mgd$$

$$F = ma = \frac{mv}{t} = \frac{mv}{ml} = \frac{v}{l} = \frac{v}{2g} \quad v = 2mgd; v^2 = 2gl; v = \sqrt{2gl}$$

$$W = Fl = \frac{l}{ml} = \frac{1}{m}; \quad W = 2E$$

- Among Schliemann's Mycenaean excavations there are the golden masks, apparently laid over the faces of dead royalty. One mask is the face of a cat [Glotz, G., Aegean Civilization, N.Y., 1925, pp 252-4]
- f. Bust et Egypt
- Thesaurus also Procrustes, the blacksmith who stretched out cut people's legs to make them fit his bed.
- Others, Thebes, Mycenae are plural names
- Dorycyllos of the Iliad remains a mystery.
- Greek mother goddess - Melancha, Iris - Hera, Ishtar - Tamuz, Cybele - Attis, Aphrodite - Adonis,
- Phrygian male: originally orgiastic flute - man to the Phrygian Cybele.
- For Greeks, the barbaroi were men "content to believe without reason and to live without liberty." - Demosthenes
- Xenelasis - hatred of foreigners
- According to Plutarch, Lycurgus wished as code of laws to be learned orally rather than written down, as unconscious habituation is preferable to mere theoretical acquaintance.
- In Hesiod's Theogony, the names of Chaos, Nix, Haemus etc are not capitalized, and it may be that it is a philosophical rather than mythological work.
- Cronus' dragonizing of Zeus' siblings a preprogrammed event? (cf. Little Red Riding Hood)
- Moira - fate (or), Lethe - oblivion, Tyche - chance, Melpomene - tragedy
- Sappho - Swirls
- In 1073 A.D. ecclesiastical authorities in Constance & Rome publicly burned the poetry of Sappho. There were no other copies, some 600 lines of the original 12,000
- Sappho's myth

- This mechanism an essential precondition to the origin of life on any planet.
- In time travel, if man coming back to 'present' if the traveler's actions in past resulted in his (+ time machine's) non-existence - present, he may merely find he cannot return (as opposed to him disappearing on arrival)
- a 2-headed + armed boy in Indiana; a 2-headed + armed girl in Brazil born within 2 days of each other. Embryonic anomalies or mutation? Probability? See info. that gynecologist observed new-born monsters and inform parents they were still born.
- no mysteries ever without presence of other person, of Shandanshi.
- "On Borrowed Time"
- perhaps I a shield in space protecting human from radiation damage (cf. mullet)
- In Minoan Crete: 'At Phaestus, about 2000, he builds tiers of stone seats, running some 80 ft. along a wall overlooking a flagged court; at Cnossos he raises, again in stone, 18 tiers 33 ft. long, + at at. 45 to them, 6 tiers from 18 to 50 ft. in length. These court theaters, seating 4 or 500 persons, are the most ancient playhouses known to us — older by 1500 years than the Theater of Dionysus. We do not know what took place on those stages; frescoes picture audience viewing a spectacle, but we cannot tell what it is that they see ...'
- The Lib of Greece
- stable, stable

- Thicker idea: seats magnetically suspended at center of spherical screen. The audience (small) appears to be invisible in the center of the action. Action is televised onto  surface (air?) of sphere. Home entertainment. Depth. Seats must permit seeing in all directions
- "pity the generator"
- a person who can control situations so that he is persecuted; cumulative causation (cf. Lil Abner character when everyone hates, for an example)
- pretty pretty [pretty, pretty]
- The Temporal Field, Time Travel, and Tigr.
- Kathleen: (1) desire for power, domination  
 (2) to be loved  
 (3) amorality, transubstances of law, numbers (B-2)  
 can all be achieved as  
 (a) prostitute, or  
 (b) actress [secret of small factory automation]
- Poof; there goes Jules Mortenice!!  
 What's my line; bone-pow stored for Abbot Libe. Female bone wine for testosterone. Private domain  
 own. Unusual specialized life
- At first radiation essential for breeding for development of progeny (reproducing, but not identical structure). Then essential radiation reduced for life development (long-term) purpose?
- When each organism's progeny was unlike it no operative selection, for gene pool, since the gene did not last long enough. When radiation reduced sufficiently to permit effective selection one of first things selected for must have been protection from radiation, i.e., cell nucleus, membrane, etc.

selfish love. Homosexuality? Love need not be restricted to male sex.

Tremendous backsliding.

Dull and toilet training?

Security - no wind.

Older, more like "I", conservative, etc.

Lack of Electra w/ father re relations w/ older men with whom she could act overtly.

Conscience, fate - purposefulness?

Psychoanalysis!!! ("I am the captain of my fate; I am the master of my soul.")

- poor, poor
- pretenses, MWF, want to be, think so. Really?
  - o days are to be performed
- "This is a clock"
  - "This is a (clock - part a)"
  - "This is a clock - (part a)"
- { Kozgolaki "is" group:
  - non-associativity
  - non-transitive (this is a clock, this is a pencil)
  - commutative (this is a pencil, a pencil is this)
  - reflexive
  - symmetric

example of an institutionalized expression:

... not uncompimentary

of a non-institutionalized expression:

not not uncompimentary,

which has a definite meaning

- infidel, infidelity, in-fido
- protest, protestant
- catholic, Catholic

the energy could not be recovered.

- Rotation achieved magnetically (if cyclotron); inertia — after reaching critical velocity, continues increasing velocity at decreasing rate until max. velocity; consideration of earth's motion in space — measured by small step translations; magnets working for several years previously; gyroscope must be fitted with space travel drive to return to earth; magnets in spheres to support occupants; perhaps this explains the flying saucers?
- If the saucers are time-travelling terrestrial rather than space-travelling extra-terrestrial the prospect is far more terrifying. For, their curiously absent nuclear and aerospace development would indicate a lack of knowledge, which indicates a destruction of records, which implies an atomic war.
- Omnipotence would imply living out of time, and past events would be as vivid as present ones (Poincaré). However, this is a Bergsonian subjective time.
- The most remarkable aspect of this view of the universe is that it is so unremarkable.
- Power =  $\frac{\text{Work}}{\text{Time}}$ , applicable to non-human situations!
- can't get an wage in wedgwood
- "To whosoever finds this: I love you."
- K. W. needs:
  - (1) individuality — independence of personality
  - (2) love — lack of individuality

"<sup>permitted</sup> <sup>& seems phosphorus prima</sup> <sup>femina</sup> <sup>litteris</sup>  
Paradise - subjugated?

The love-need expresses itself in making people fall in love w/ her — about one conclusion level. Beth will not discuss D's difficulties b/c fear of terminating the friendship. This is a

- Two concentric spheres, rotating in mutually orthogonal directions set up a field in the overlap (interaction) volume when the critical velocity is reached. This whole volume undergoes the phenomena.
- An individual transported back in time would notice a dichotomy. Subjective time goes on; he is "now" in the "future" with respect to before the translation. There is, too, an objective time: the events before him; which are "now" in the "past" with respect to before the translation. It is the existence of this objective time which demonstrates the absoluteness of time. The time traveller is moving upon a fixed pattern (which he may, but must not, necessarily change). At any "time" this pattern exists and is accessible. Thus time, in this sense, exists apart from the human element, and would exist if there were no ~~human~~ beings, but only a sequence of (ordered) inorganic events.
- In any temporal translation, we must invoke a conservation principle. Perhaps if matter is translated at time ① from point ④ to time ② and point ③, the inverse also occurs, and that which was at ②③ is translated to ①④. This would enable the time traveller to return to his own time.
- Scobles suggests that time is not a dimension, but an energy quantity w/ an associated direction. Hence, a unified field theory would involve interconversions of energy between, e.g., time and mechanical energy; a "mechanical equivalent of time." Hence, (rotational/mechanical) energy would be expended in achieving "more" time. This would be a non-conservative (dissipative) process;

- gauge - Dagan; libel - Byblos?; damask - damascene
- blindness an Oedipus result? (Jewelry = jewelry)
- In Timaeus: elements of
 

earth	in cubes
water	icosahedron
air	octahedron
fire	pyramids

Parallel in crystal structure?

- Only 13 cities in the world of pop  $> 5 \times 10^6$  which begin w. "M". Each city in diff. country. M will later
- Timaeus: universe a globe; cold due to contracting lightness + heavier are due to attractive forces re the eye.
- Genetic relation between "liking" a food and its health-value? Consider selective W.
- Assyrians worshipped a sky-father (mono- or polytheistic?) Their origin?
- Time travel precludes the existence of God!:

Can God exist outside of space? No, this is an absurd contention. He may be in space, or he may be space, but as far as space is defined as the receptacle of all things (v. also Maxwell), God cannot exist apart from it. Space must exist absolutely.

Now, similarly, if time exists absolutely, as the receptacle of events, God cannot exist apart from it. Time travel would show that time ~~is~~ not a subjective but an objective and absolute existence ("Newtonian" time) (v. Johnson, p. 131-2)

book on time

- From  $V = RW$ , If R large, w small. If  $R = 186,000$  miles,  $w = 1$  radian/second.  $= \frac{1}{2}$  revolution/second.
- The velocity in the center of a vortex  $\odot$  is "0"

We talked a lot like this, stable and stable,  
and whine and whine and know and no and  
~~solo~~ more. It was funny how in Texas he  
was towards the end.

You say it when you sort of don't  
want to say some thing. It gives you time  
to think. The other meaning is good  
about some things you do.

I didn't think Joe under stood ~~but~~  
he said yes he didn't be cause I didn't  
say it too well, but he said he did.

Then Joe said there's just one more  
two meaning word he wanted. He wanted  
me to see if I could think of a  
word with two meanings about all men  
or all animals or the whole world.

I thought and thought. Then I re-  
membered my store - ice start rock - etc.

Well it's not just like the others.  
This one is two words that sound the  
same but are spell-led a little differ-  
<sup>ent</sup> ~~of course they may differ on things like the other~~  
~~one~~ ~~you~~ ~~the meanings are different?~~ ~~you~~

He ~~said~~ let's hear it, very sub.

I told him about terra and terror.  
Joe said it would do. Joe said this  
was the part he hated <sup>in me</sup> so long.

He was leaving. He said's still in  
ideas natural language ~~they've both~~  
been here a long time. Then Joe said  
something. This time he really said  
some thing. It was funny be cause  
I first thought he was saying it to  
me. But he was talking to him self.

He said So long  
~~I think he means he partly saying so~~  
~~long to good linguist. I don't be that he~~  
~~just as the others dreams were~~  
~~different? ~~you~~~~

funny for a linguist you don't talk.  
He said that was be cause he wants me  
to say words for ideas he says. (He says  
ideas). I told him well okay but it's  
still kind of funny.

What do you mean funny he said  
in a busyness-like tone of idea.

Well, different "strange" bus. It  
means another thing, too. It means  
something that makes you laugh.

Oh, he said in a first kind of funny  
way. That's what he wanted, that kind  
of two meanings for certain words.

That's an other one I said. Mean.  
It means . . . I had to laugh. It's hard  
to say what mean means. But he  
got it after a while. Then I told him  
that else mean means.

He waited a little then joe said when I  
laughed about mean means was that  
funny first or second.

Well, a little of both I guess. But funny  
second is more like with a joke.

Tell me some jokes said joe.

I thought about jokes I don't know  
many — only two kinds. One find you  
aren't supposed to tell to grown ups.  
joe was like a grown up. More even.  
Any way I don't understand ~~those~~ <sup>those</sup> kind  
too well. So I told him little mom  
jokes. He didn't even laugh once.

He wanted some more with two mean-  
ings.

Well, I said, well that's one. Well.

\* His real name was manny, but every body calls him joe tangi.

\* like there are too many plants & too little Evaluators.

### The Under Taker

#### So Long

Most people from other planets mind Blropping or Zlloperosknl. This one's name was joe. That wasn't his real and true name\* He told me it was a co-incidence. A co-incidence is when two things happen (that's the worden) together (that's the co). That's the same like co-operate. Anyways, joe said he was a Busy Evaluater. There are plain Evaluaters too, but joe was a busy one. He didn't say he was a busy Evaluater the way Mr. Gillespie says he's a busy man sometimes when I ask him if he knows what a word he just said <sup>really</sup> means. joe said it like he was ~~really~~ busy, like he only got a little time, and whisk off to another planet. I told joe I know what an Evaluater is, it's some thing that finds out the value of something. joe said how do I know, and I told him about value being in the middle of Evaluater, and joe said good ~~he made~~ you, I do for me do I break up words like that all the time. After I said it ~~was~~ my favorite game joe ~~was~~ playing around with words was my favorite pass time joe said he's happy he didn't expect to find a linguist in a kid so fast he's a linguist too, <sup>that's how he evaluates</sup> I was going to say about linguist and lingo and what I read in the diction any about Latin for tongue he comes I was proud that he said we were co-linguists, when all of a sudden I realize that he didn't said told him. I said joe it's

- evictions in towns & other immovably-moving vehicles
- con-bean, pome-gran vine is a dice on re-voir, a-dice.
- Miles Hendon, Master of Ballantrae <sup>top part of</sup>
- relation between position of body in sleep and (1) psychiatric temperament, (2) dreams?
- constellations in S hemisphere
- migration types in families
- person who ascribed selfish motives to Anthony in S's Julius Caesar has his home life dominated by suspicious, two-facedness, and self-interest
- bond (chains), bond(guilt, jail)
- ret, day, 3, 6, 9 miles - st. M.D., T.M., L.L.L., A.V.L.I., T.T.
- Herbert Schaefer? W. Lang at NARCS.
- Adam & Eve were banished for eating the fruit of the tree of Knowledge of good and evil: "in sorrow shalt thou eat of it all the days of thy life;" Gen 3:17. Gen 3: 22-24

¶ And the Lord God said, Behold, the man is become as one of us, and now lest he put forth his hand, and take also of the tree of life, and eat, and live for ever.

? Therefore the Lord God sent him forth from the garden of Eden, to till the ground from hence he was taken (male?)

So he drove out the man, and he placed at the east of the garden of Eden Cherubims and a flaming sword which turned every way, to keep the way of the tree of life. ¶ Cf. Gilgamesh. Check the Hebrew for (?) and for "east".

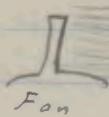
- Once Upon a Time, Madame

— (argument to God) Objection: God may be able to separate thinking from doing + to live in a time continuum, but may not wish to. But: is a capability which has never been tried, truly a capability? To an omniscient being, yes, he would know whether he will do a thing he had never done.

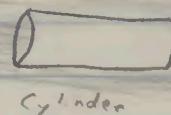
Yet if he did do this thing he would cease to be omniscient; being omniscient he knows this fact. [We are merely stating that he has power to make himself non-omniscient, non-omnipotent.] I incidentally think the Schopenhauer objection is the true antithesis of the original position, since with it omniscience + omnipotence must rise or fall together, whereas w. the original position they are mutually exclusive. This contradiction is the turning point of the entire discussion.]

- In far-fall conclusions tests could be made for (1) the freely traveling gravitational waves which presumably exist in the neighborhood of a rapidly oscillating mass, + (2) the interaction between the gravitational + the electromagnetic fields (cf. Heimlein's Day After Tomorrow); since the otherwise overwhelming influence of the earth's field is eliminated.
- Robin's Thicker is constipated
- pulling a Rickover
- attack on research center: mounted Cadillac caravan
- "surprise" visit - contingent to hold off guards until reinforcements arrive; contingent to obtain required info. + broadcast on the spot by UHF

- notes, on notes (v)



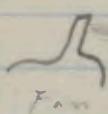
Fan



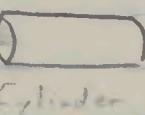
Cylinder

Which direction does  
the cylinder move in?

or



Fan



Cylinder

Consider Bernoulli's  
principle + Newton's  
third law

- great American day of wife
- infall
- discrimination (prejudice), & (careful, refined, say I chose)
- from relativity, matter dictates form (cf. Aristotle)
- coordinate systems are in a place, etc. but perhaps  
not as in finitum, so that there is an absolute  
space or notion of place.
- Euclid, fifth book, vide
- First a spacetraveller should be required to live for ever  
live with human "friends"
- reasonable
- formal (in form), formal (stereotyped as in "formal statement")
- undertaker (cf. Charon)
- understanding
- sophist, sophisticated
- man unwilling in toto to be Freudian interpretation
- HIRAKAWA 6147 University
- Robbin's Hook
- Why should a circle represent nothing?
- It is a remarkable coincidence that the moon's  
period of rotation is identical with its  
period of revolution. Purpose? (cf. mercury!!)  
Investigate the celestial dynamics of this.
- terra, terror
- Can God cause himself never to have been?
- perhaps the subconscious is a parasite.
- contingent (of men) contingent (upon)

- The Q (qua) operator → as far as it is
- Q-operator applies to symbolic logic?
- clitoral circumcision of Muslim women
- a play, to play
- goods (moral), goods (material)
- lang (n), lang (v), lang (x)
- Origins of <sup>slippery</sup> ~~obscen~~ many cases
- fact that "morals" (as in "moral change") and "virtue" (as in "she lost her virtue") are identified with sexual behavior standards indicate the almost exclusive importance of sex in ethics in the common mind. A product of Augustine and Calvin (= trend?)
- abbreviation of idem to id.
- (end of prof's idea) But if thinking & doing <sup>in</sup> the same action, God cannot separate thinking from doing, which is a possibility (e.g. Aquinas) since humans can do this. This is a definite limitation to God's power, and, i.e., he is not omnipotent, i.e., there is a limitation to what he can do. But since thinking & doing, by this hypothesis, are the same action, then powers of thinking are also limited, and he is not omniscient. [Is this a fallacy of form? - based around "thinking"?] Also, this last objection hypothesis certain traits which seem a priori dubious. Considering Newtonian time, the "metastatic" expansion of time seems particularly untenable. Considering Bergsonian time, however, it becomes possible. However, Bergsonian time has its own innumerable difficulties. [consider Dewey]

why didn't God put ~~knowledge~~ in the state he eventually  
wants us + not make us suffer for it if he was  
"good" he would not want us to suffer?

Termination, he may at one time be permitted knowledge which at another time he may be refused, and so on an infinite (or finite) period have all knowledge! But, if, in case 2, he gradually permits himself knowledge, he must already have had the knowledge both in order to know what knowledge is relevant for what pre-determined situation. This implies prior omniscience which is contrary to our development. And if, as in case 1, he is gradually permitted knowledge by the superior being, for the same reason, the superior being must be omniscient, which is ~~too~~ impossible, since the superior being is also omnipotent.

But if the superior being is omniscient by the first argument re free will there must still be (1) a yet higher pre-determinative being and so on ad infinitum or (2) another self-predetermination case, which ~~reduces~~ contradicts, and so on ad infinitum. omniscience is impossible. By (1) we have a self-contradiction and by (2) we have an infinite hierarchy of "gods", which, although not impossible, does not conform to any extant god-concept and raises numerous problems of its own.

N.B. The entire argument can be destroyed if it be assumed that for God, thinking and doing are the same action, and that every thought and deed he "has ever" done, for him "has occurred" in an instant (i.e., eternity must be infinitesimally short in duration for God) (?) and to know of the predetermined situations themselves.

distinction between can do and does do

- (+) In regard to the predetermination being effected by some higher power, it may be argued that God wishes to predetermine his own action and deprive himself of choice. He would be his own prisoner.

[But, God in making the decision to be his own prisoner, knew what choice he would make. Hence the same argument holds. This argument is inapplicable, however, in the case that God is infinitely old, and has always predetermined his own choice. Following the conclusion on previous page we see that God is either infinitely old or neither omnipotent nor omniscient.]

However, if God were his own prisoner, he would not be omnipotent, since he could not make any choice, but only the one he had previously ~~intended~~ "predetermined". This is a distinct limitation to his powers. As soon as God relaxes his self-predetermination, the argument of the previous page applies and we again conclude that he could not be omnipotent. In either case the argument is identical from that point.

- (\*) Let us consider the case of the omniscient non-omnipotent being [Any sort of predetermination of his <sup>kinds of</sup> thoughts does not restrict the number of thoughts, if he is infinitely old] But predetermination does restrict the kinds of thoughts he will have, and if there is even one thought the being has not had he is not omniscient for his knowledge is incomplete. However, especially in the second case of prede-

work to be done, both  
thoughts & actions

does not have free will. If a being's choice is predetermined, the predetermination is dictated by some higher power. Therefore, if God is omniscient, he is not the supreme being. Therefore the supreme being is not omniscient. And, ~~simplifying~~, no omniscient being is omnipotent. Therefore omnipotent beings are not omniscient. Consequently, omnipotence and omniscience contradict each other. <sup>(1)</sup>

<sup>(Underline)</sup> An omniscient being who is not omnipotent is in a much better position than an omnipotent being who is not omniscient.

The "internalization" argument is invalid, for if God sees the possibilities of choices, and knows which possibility he will choose, and knows that man he will choose it because that choice best suit his purpose, the question has been begged. For the purpose has been predetermined, in precisely the same way as discussed previously. Let us now consider the case of the omnipotent non-omniscient being. Considered there is one "real" being to somewhere in the universe. There is the great question of whether this non-omniscient being, if the being were omnipotent he could, and very likely would, make himself omniscient. But we have seen above that an omnipotent being could not also be omniscient. Therefore, the being cannot make himself omniscient. Accordingly, the being is not omnipotent.

Thus we see that there is no omnipotent and omniscient being, nor yet either an omnipotent or an omniscient being. All powers and knowledge are limited in this universe.

"a pot to piss in": example of an apparent historical reference (re poverty) which has no historical foundation.

- consumer: consumption, consumerism

- He who loses, hesitates

- incongruous, congnitive

- impatience (but relevant)

36 - tragedy and a man reborn, he lives, always in the full flush of youth, well into old age again after maturity, reflective in old age, and then through his faults of his own, he dies. Why? What has been exemplified? Do we have to wait and do nothing; if so, death is defeat, if not, it is life which will defeat. It was an example he left (meaningless).

- If One's night and long day, a day of minuscule is a balance in a life of edge, being extremely suitable, how extremely unlikely is not the thing of relatively neutral?

- Ign 5616 Daniel 8:20

- Disgraceful

- ethic = morale

- need for a comprehensive work on the advantage disadvantage of democratic capitalism

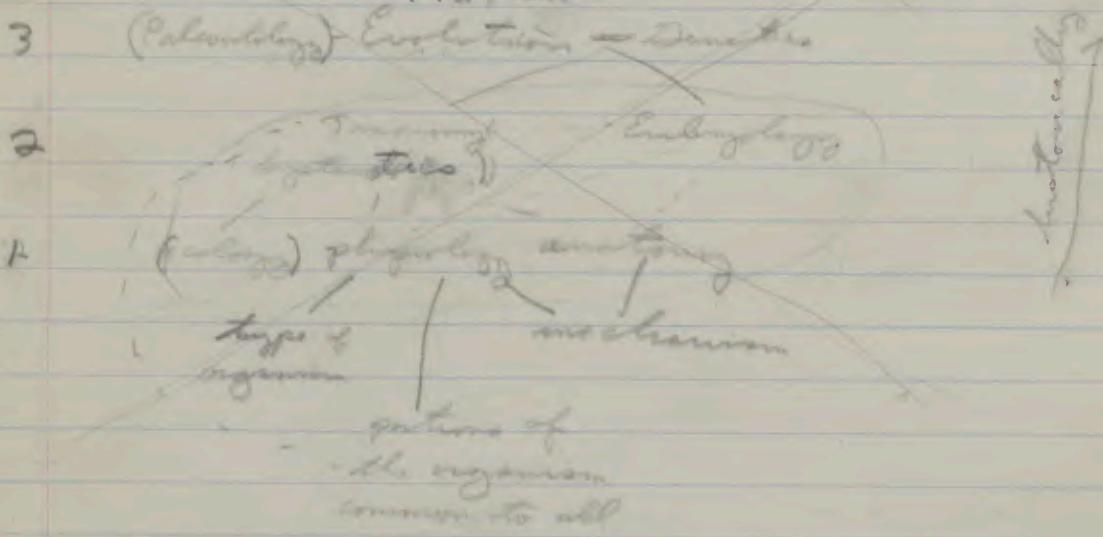
- several corporations increase their duplicate wealth

- Russia's recent military budget was 30% total budget. U.S. <sup>in accordance</sup> for fiscal year '52 was 70%. However categories do not overlap.

- If God is ~~omnipotent~~ omniscient, then before he does a thing, before he chooses, he knows what he will choose. And by his choice is pre-determined, there is no choice, & God (no freedom - v. Kant is wrong).

- If Mach's principle is valid, in time-travel, the (cosmological) constant of gravitation should change.
  - "form" as in A's "formal cause"
  - "Athenian strange in the Laws?"
  - mostly "university" "holiday"
  - Her brother preceded her by a quarter of a hour (abeyance)
  - evolution, genetics, taxonomy, embryology, anatomy, physiology, ecology
- such that often  
body → brain  
etc. leads to etc.

### Relations



- "rationalizing"
- what's your "beef"
- time is a vector
- most presume non-linearity of life-hist
- Perhaps

Large no. of possible cell make-ups. One of these was best adapted for survival. Enough time elapsed for all to be tried. Is inevitable, that the cell selected was the cell selected. (Unavoidable to higher stages & not enough time commensurable w/ increasing complexity causing increasing small odds).

# Observation

[a:b] [a:b] [a:b]

4

"proximate" "approximate"  
"nominal" "immediately" "literally"

Estimation storage

To "identify" an object

$$a \cdot b > c, c \text{ a constant}$$

If  $b$  is pos;

$$a > \frac{c}{b}$$

$$\text{Let } a = 0 \quad [\text{a const} = 0]$$

$$\therefore 0 > \frac{c}{b}$$

$\therefore b$  is neg.,

$\therefore b$  is not pos.

If  $b$  is neg.

$$a < \frac{c}{b} \quad 0 = -1$$

$$\text{Let } a = 0$$

$$0 < \frac{c}{b}$$

$\therefore b$  is pos.

$b$  is not neg.

$$\therefore b = 0$$

But consider:

This argument  
should be invalid but if (1) are invalid then  
we do not know  $b = 0$ . Similarly for (2),  
i.e. we cannot derive value of  $b$  in this  
way.

"negligent's" "indigent"

"customers"

Not consulting a dictionary is not only a sign  
of laziness, it is a sign of a dislike for  
being informed of ignorance.

Astronomer who does not know constellations,  
relies on BD charts.

Have you ever seen a Negro cow?

To "fire" a gun

A red whale swimming in the sky slightly above  
the sun "at sea level".